Ranjith Kumar Devela

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**Professional Summary:**

* Enthusiastic Python Developer and Data Engineer with 8+ years of expertise in crafting web-based applications.
* Results-driven Data Analyst with over 4 years of experience in Data Analytics, Machine Learning, and Data mining.
* Proficient in Python 3, Django 2, and Flask, specializing in Model View Template (MVT) architecture and Model-View-Controller (MVC) design.
* Proficient in R and Python, with expertise in Big Data technologies like Hadoop and Hive.
* Experienced in database management with MS SQL, PostgreSQL, Oracle, SQLite, and MySQL using SQL Alchemy. Skilled in API Developed using Frameworks like Hug and Fast API.
* Adept at Kubernetes management for scalability and zero downtime.
* Well-versed in front-end technologies and strong documentation skills.
* Possesses a deep understanding of Data warehousing, Facts Tables, Dimension Tables, and Snowflake schema modelling. Extensive experience in database performance tuning, optimization, and data modelling.
* Skilled in NoSQL technologies (MongoDB, CouchDB, Redis) and relational databases (SQLite, MySQL).
* Hands-on experience with AWS services, continuous Deployment using Jenkins, and version control systems like Git. Adept at statistical programming and predictive modelling.
* Strong in data visualization using Tableau, dashboards, and BI solutions.
* Experienced in transforming business requirements into analytical models and designing algorithms for structured and unstructured data.

**Technical Skills:**

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| **Programming Languages** | Python, JavaScript, C/C++ |
| **Python Libraries** | Beautiful Soup, SciPy, Matplotlib, Panda’s data frame, urllib2, requests, JSON. |
| **Frameworks** | Django, Bootstrap, Flask, Hug, Fast API |
| **Big Data Technologies:** | Apache Hadoop (HDFS/MapReduce), PIG, HIVE, HBASE, SQOOP, FLUME, OOZIE |
| **Database** | MySQL, PostgreSQL, MongoDB |
| **IDEs** | PyCharm, MS Visual Studio |
| **Machine Learning / Data Analysis / Statistics:** | Hidden Markov Model, Random Forest, Decision Tree, Support Vector Machine, Neural Networked. |
| **Deployment Tools** | Azure, AWS, GCP |
| **SDLC Methods** | Agile, SCRUM |
| **CI/CD** | Jenkins, Docker |
| **Testing Framework** | Py Test, Unit test, ROBOT, Lettuce |
| **Bug Tracking Tools** | Jira, Bugzilla. |
| **Version Control Tools** | VSS, SVN, GitHub, GitLab, Git |
| **Networking/ Protocols:** | DNS, Telnet, LDAP, TCP/IP, FTP, HTTP, HTTPS, SSH, SFTP, SCP, SSL. |
| **Containers Deployment s:** | Docker, Kubernetes, K3s, EKS, AKS, Contained, MESOS |
| **Operating Tools** | Windows, ubuntu, Fedora Linux, Red Had Linux |

**Education:**

* Bachelor Of Computer Application (BCA), St. Aloysius International University, Bangalore, Karnataka, India, 2015

**Professional Experience:**

**Bank Of America, Dallas, TX Jul 2022 to Present**

**Sr. Python Developer**

**Responsibilities:**

* Actively participate in Agile/Scrum methodologies, contributing to collaborative and iterative Developed processes.
* Rigorously follow the Software Developed Life Cycle (SDLC), guiding projects from design to Deployment in the banking software domain.
* Played a key role in the design and Implementation phases, focusing on scalability, performance, and security in banking applications.
* Designing modular and flexible solutions that align with the long-term vision of the application is our primary focus.
* Designed with scalability as a priority, ensuring the system can handle increasing loads and user demands effectively.
* Designing the implementation phase, we translated design specifications into well-structured, efficient, and maintainable code.
* Implemented scalable features, considering future expansion and evolving business needs.
* Implemented unit tests and participate in the creation of automated testing processes to validate the functionality and reliability of the codebase.
* Developed in collaboration with frontend developers, database administrators, and other team members to achieve seamless integration of backend components.
* Developed the practice of staying updated on emerging technologies and trends, we integrate them into the development process to enhance the functionality and efficiency of banking applications.
* Worked closely with frontend developers, database administrators, and other team members to achieve seamless integration of backend components.
* Stay updated on emerging technologies and trends, integrating them into the development process to enhance the functionality and efficiency of banking applications.
* Implemented version control Practices to track and manage code changes collaboratively.
* Utilized Python for backend Developed, ensuring the creation of efficient and scalable software solutions tailored to the banking industry.
* Integrated with cloud services from AWS, Azure, or GCP to develop scalable and resilient banking solutions, leveraging the power of the cloud.
* Implemented and optimize CI/CD pipelines using Jenkins, automating build, test, and Deployment processes for continuous Integrated and delivery.
* Deployed robust testing Frameworks, such as pytest or unit test, to automate testing processes and ensure the reliability and quality of Python code.
* Proficient in Python; familiarity with other languages like Java or Scala is advantageous.
* Worked with relational databases such as Oracle or MySQL, ensuring secure storage and retrieval of banking-related data.
* Utilized Integrated Developed environments (ides) like PyCharm and Jupyter Notebook for efficient coding, debugging, and testing.
* Leverage big data technologies such as Hadoop and Spark for processing and analysing large volumes of banking data.
* Deployed Frameworks like Django or Flask for the rapid Developed of web applications and APIs tailored for the banking domain.
* Used essential libraries like Pandas, NumPy, and Scikit-learn for data manipulation, analysis, and machine learning tasks.
* Implemented Deployment tools like Docker for containerization, ensuring portability and scalability in banking applications.
* Implemented testing Frameworks like pytest or unit test to automate testing processes, ensuring the reliability of Python code.
* Utilized bug tracking tools such as Jira or Bugzilla to log, track, and Prioritized software defects and issues efficiently.
* Deployed version control systems like Git or SVN for collaborative code changes and versioning control.
* Applied an understanding of Networking principles and protocols, ensuring secure communication and data exchange in banking systems.
* Deployed and manage containerized applications using Docker containers, ensuring flexibility and efficiency in banking software solutions.
* Demonstrated familiarity with operating systems like Linux/Unix and Windows, essential for Deploying and maintaining banking applications.
* Explore and Applied AI techniques in banking applications, such as fraud detection, customer service automation, and personalized financial recommendations.
* Deployed machine learning, data analysis, and statistical methods to Extracted insights from banking data, supporting decision-making and risk management.
* Ensure compliance with industry regulations and security standards.
* Integrated with core banking systems for seamless Transactions.
* Develop solutions for risk assessment, fraud detection, and compliance monitoring.
* Enhance customer experience through digital banking channels.
* Applied analytics for credit scoring, loan approval, and investment recommendations.

**Kaiser Permanente, Atlanta, GA May 2020 to Jun 2022**

**Sr. Python Developer**

**Responsibilities:**

* Engaged collaboratively within an Agile frame Worked, actively participating in Scrum ceremonies to promote iterative Developed and adaptability to evolving requirements.
* Leaded projects through the complete Software Developed Life Cycle (SDLC), carefully navigating from initial requirements gathering to Deployment, ensuring the Implemented of systematic and structured Developed processes.
* Designed to spearhead innovative architectural designs for healthcare applications at Kaiser Permanente, ensuring alignment with the organization's mission for superior patient care.
* Designed with devoted special attention to performance considerations, we crafted algorithms and components that uphold optimal speed and responsiveness in healthcare applications.
* Designed with a security-first approach, we integrated robust measures for healthcare data encryption, access controls, and adherence to stringent compliance standards into the architectural design.
* Implemented robust CI/CD pipelines using Jenkins, automating build, test, and Deployment processes to foster continuous Integrated, enhance efficiency, and reduce time to market.
* Implemented robust testing frameworks like pytest or unit test to automate testing processes and ensure the reliability and quality of Python code.
* Implemented features were collaborated on seamlessly with quality assurance teams to validate that they not only meet but exceed the stringent requirements set for healthcare systems.
* Implemented with precision, I led the Implementation phase, transforming intricate healthcare system design specifications into meticulously crafted Python code.
* Developed to execute the deployment of scalable features, we meticulously considered the nuanced demands of healthcare data processing and the ever-evolving landscape of patient care.
* Developed as a linchpin in interdisciplinary coding efforts within the dynamic realm of healthcare applications, embracing an Agile development environment.
* Developed to drive the iterative development of new features and enhancements, sculpting solutions that directly respond to the evolving needs of healthcare systems and patient care.
* Uphold coding standards, best practices, and established guidelines with unwavering commitment, ensuring the healthcare application codebase maintains a level of consistency and readability that aligns with industry expectations.
* Harness the capabilities of cloud services from AWS, Azure, or GCP to construct healthcare solutions that are scalable, resilient, and cost-effective, prioritizing optimal resource utilization and flexibility.
* Deployed Python for Developed tasks, ensuring elevated code quality and adherence to industry best practices.
* Worked with relational databases such as PostgreSQL, MySQL, or Oracle to securely store and retrieve healthcare data.
* Utilized popular ides such as PyCharm, Visual Studio Code, or Jupyter Notebook for efficient coding and debugging processes.
* Applied big data technologies like Hadoop, Spark, or Kafka for processing and analysing large volumes of healthcare data effectively.
* Leverage Python frameworks like Django or Flask to swiftly develop web applications and APIs tailored for the healthcare domain.
* Utilized essential libraries such as Pandas, NumPy, and Scikit-learn for data manipulation, analysis, and machine learning tasks.
* Used Docker and Kubernetes to containerize and orchestrate healthcare applications, ensuring efficient Deployment and scalability.
* Utilized bug tracking tools like Jira or Bugzilla to log, track, and Prioritized software defects and issues efficiently.
* Deployed version control systems like Git or SVN for collaborative code changes and versioning control.
* Demonstrated understanding of networking principles and protocols such as HTTP, TCP/IP, and restful APIs to build scalable and interoperable healthcare systems.
* Deployed and manage containerized applications using Docker containers for portability and scalability across different environments.
* Applied AI/ML techniques, data analysis, and statistical methods for extracted insights from healthcare data, facilitating decision support and predictive analytics.
* Ensure compliance with HIPAA regulations and other healthcare standards to uphold patient data privacy and security.
* Integrated with electronic health record (EHR) systems for seamless data exchange and interoperability.
* Prioritized patient-centric care and Used experience in the design and developed of healthcare applications.
* Utilized telehealth and remote patient monitoring technologies for remote care delivery.
* Collaborated closely with healthcare professionals to comprehend clinical Workflow and requirements, ensuring the Developed of tailored solutions.
* Made substantial contributions across all stages of healthcare application development, placing a strong emphasis on scalability, performance, and security throughout the entire lifecycle.

**General Motors, Detroit, MI Jan 2019 to Apr 2020**

**Sr. Python Developer**

**Responsibilities:**

* Operate within an Agile environment, actively participating in Scrum ceremonies to facilitate iterative Developed and ensure flexibility to accommodate evolving requirements within automotive software projects.
* Adhere rigorously to the Software Developed Life Cycle (SDLC), meticulously navigating from requirements gathering to Deployment, ensuring the adoption of systematic and structured Developed processes specific to automotive software Developed.
* Designed through close collaboration with cross-functional teams, we comprehended automotive system intricacies, translating them into scalable and efficient designs.
* Designing to spearhead the development of flexible architectures capable of accommodating emerging trends and technologies in the automotive industry.
* Implemented as a Leadership role in the Implementation phase, I translated intricate automotive system design specifications into meticulously crafted Python code.
* Implemented to foster collaboration within cross-functional teams, ensuring Implementation seamlessly aligns with established automotive system design principles.
* Developed to cultivate robust collaborations with automotive engineers, frontend developers, and other team members, ensuring seamless integration of backend components and delivery of cohesive automotive solutions.
* Developing a vigilant eye on emerging technologies within the automotive industry, we infused innovation into the development process to elevate the functionality and efficiency of automotive applications.
* Implemented version control practices to meticulously track and manage code changes, fostering a collaborative environment conducive to automotive system development.
* Exploited the potential of cloud services available through AWS, Azure, or GCP to construct scalable, resilient, and cost-effective automotive solutions, encompassing connected car services and cutting-edge data analytics platforms to drive Innovated in the automotive domain.
* Implemented ed robust CI/CD pipelines leveraging Jenkins for automated build, test, and Deployment processes, ensuring continuous Integrated and delivery of automotive software solutions to enhance productivity and streamline Developed Workflow.
* Utilized d Python across various Developed tasks, encompassing backend services, data processing, and automation scripts to streamline automotive software solutions.
* Worked proficiently with relational databases like MySQL or PostgreSQL, ensuring efficient storage and management of vehicle-related data to support automotive applications.
* Deployed popular ides such as PyCharm or Visual Studio Code for efficient coding, debugging, and testing of Python code, ensuring high-quality software Developed practices.
* Harness big data technologies like Hadoop or Spark for effective processing and analysis of large volumes of vehicle telemetry data, facilitating Actionable insights and decision-making.
* Leverage versatile frameworks like Django or Flask to construct scalable and robust web applications tailored to meet the demands of automotive services and platforms.
* Utilized d powerful libraries such as Pandas, NumPy, and Scikit-learn for comprehensive data manipulation, analysis, and machine learning tasks pertinent to vehicle data analytics.
* Implemented ed containerization using tools like Docker and orchestration with Kubernetes, enabling seamless Deployment and management of containerized applications across diverse environments.
* Ensured software reliability and quality through the Implemented of robust testing frameworks like pytest or unit test, facilitating automated testing processes.
* Efficiently track and manage software defects and issues using bug tracking tools such as Jira or Bugzilla, ensuring timely resolution and prioritization.
* Collaborated effectively using version control systems like Git or SVN to manage code changes collaboratively and ensure versioning control throughout the Developed lifecycle.
* Demonstrated proficiency in networking principles and protocols such as CAN bus, LIN bus, and Ethernet, essential for seamless communication with vehicle systems and external devices.
* Utilized d Docker containers for the Deployment and management of containerized applications, ensuring portability and scalability in automotive software solutions.
* Possessed familiarity with operating systems like Linux/Unix and real-time operating systems (RTOS), crucial for the Developed of automotive embedded systems and software.
* Applied advanced AI/ML techniques, data analysis, and statistical methods to extracted valuable insights from vehicle data, facilitating predictive maintenance, autonomous driving, and other innovative automotive applications.
* Adherence to automotive safety standards such as ISO 26262 for functional safety in automotive software Developed.
* Integrated with vehicle communication protocols like CAN bus and LIN bus for vehicle-to-vehicle and vehicle-to-infrastructure communication.
* Developed of connected car services and telematics solutions for remote vehicle monitoring, diagnostics, and over-the-air updates.
* Application of cybersecurity measures to protect vehicle systems and data from cyber threats and attacks.
* Collaborated with automotive OEMS (Original Equipment Manufacturers) and suppliers to Integrated software components into vehicle systems and platforms.
* Compliance with automotive regulations and standards related to emissions, fuel efficiency, and vehicle performance.
* Innovated in areas like autonomous driving, electrification, and vehicle electrification to address evolving trends and customer demands in the automotive industry.
* Significantly contributed to various phases of automotive software applications, with a primary focus on scalability, performance, and reliability to meet the stringent demands of the automotive industry.

**American Family Insurance, Madison, WI Oct 2017 to Dec 2018**

**Python Developer & Data Analyst**

**Responsibilities:**

* Engaged in Agile methodologies, participating in Scrum ceremonies to facilitate iterative Developed and ensure alignment with dynamic requirements in insurance software projects.
* Adhere rigorously to the Software Developed Life Cycle (SDLC), meticulously navigating from requirements analysis to Deployment. Ensure a systematic and well-structured approach tailored for insurance software Developed.
* Designed through proactive collaboration with cross-functional teams, we comprehended insurance system requirements, translating them into scalable and efficient system designs.
* Designed with a priority on performance considerations during the design phase, we developed components and algorithms that optimize speed and responsiveness in insurance applications.
* Implemented features were collaboratively validated with quality assurance teams to ensure they not only meet but exceed the stringent requirements set for insurance systems.
* Implemented to foster collaboration within cross-functional teams, ensuring the implementation aligns seamlessly with the established insurance system design principles.
* Developed in close collaboration with team members, we proactively addressed challenges encountered during the development phase in the specialized context of insurance applications at American Family Insurance.
* Developed with an unwavering commitment to uphold coding standards, best practices, and established guidelines, ensuring the insurance application codebase maintains a level of consistency and readability that aligns with industry expectations.
* Utilized cloud services like AWS, Azure, or GCP to build robust and scalable insurance solutions. This includes policy management systems and customer portals to enhance operational efficiency and customer Satisfaction.
* Implemented efficient CI/CD pipelines using Jenkins for automated build, test, and Deployment processes. Ensure continuous Integrated and delivery of insurance software solutions to optimize Developed Workflows and accelerate time to market.
* Utilized Python for backend Developed, data analysis, and automation tasks in the insurance industry. Ensure the delivery of efficient and scalable software solutions tailored to specific business needs.
* Collaborated with stakeholders to gather requirements and design solutions that address unique challenges and opportunities in the insurance domain. Focused on enhancing customer experience and operational efficiency.
* Worked with various relational databases, including MySQL and PostgreSQL, to securely store and manage insurance-related data. Ensure compliance with industry regulations and data protection standards.
* Utilized Integrated Developed environments (ides) like PyCharm and Jupyter Notebook for efficient coding, debugging, and testing of Python code. Streamline the Developed process and improve code quality.
* Leverage big data technologies such as Hadoop and Spark to process and analyse large volumes of insurance data. Extracted Actionable insights to support strategic decision-making and risk management.
* Deployed frameworks like Django and Flask to build scalable and robust web applications supporting insurance services. Enable seamless Interaction with customers and stakeholders.
* Utilized libraries like Pandas, NumPy, and Scikit-learn for data manipulation, analysis, and machine learning tasks related to insurance data analytics. Develop predictive models and risk assessment tools.
* Implemented Deployment tools like Docker for containerization and Kubernetes for orchestrating containerized applications. Ensure portability and scalability across different environments.
* Implemented testing frameworks such as pytest and unit test to automate testing processes. Ensure the reliability and quality of Python code, reducing the risk of errors and defects in insurance software solutions.
* Utilized bug tracking tools like Jira and Bugzilla to log, track, and Prioritized software defects and issues. Facilitate efficient resolution and continuous improvement of insurance software products.
* Deployed version control systems like Git and SVN to manage code changes collaboratively. Ensure versioning control and facilitate Collaboration among team members.
* Possess a solid understanding of networking principles and protocols to facilitate secure communication and data exchange within insurance systems. Ensure data confidentiality and integrity.
* Deployed and manage containerized applications using Docker containers. Enhance portability and scalability in insurance software solutions, optimizing resource utilization and reducing Deployment complexity.
* Demonstrated familiarity with operating systems like Linux/Unix and Windows, crucial for developing and maintaining insurance software applications in diverse environments.
* Applied advanced AI/ML techniques, data analysis, and statistical methods to derive insights from insurance data. Ensure compliance with regulatory requirements like HIPAA and GDPR for customer data protection.
* Integrated with insurance core systems like policy administration, claims management, and underwriting platforms. Support end-to-end insurance processes.
* Implemented insurance analytics solutions for risk assessment, pricing optimization, and customer segmentation. Drive business growth and profitability.
* Collaborated with Actuaries and insurance professionals to develop predictive models and analytics tools for forecasting and decision support in insurance operations.
* Adopt emerging technologies like blockchain and IoT for insurance applications such as smart Contracts, telematics, and usage-based insurance.
* Focused on customer experience and engagement through digital channels like mobile apps and online portals. Enable seamless policy management and claims processing.
* Drive continuous Innovation insurance products and services. Meet evolving customer needs and market trends in the insurance industry.
* Played a significant role in all stages of insurance software application development, prioritizing scalability, performance, and reliability to meet the exacting standards of the insurance industry.

**Genesis Software Systems, Hyderabad, India. Aug 2016 to Aug 2017**

**Python Data Engineer**

**Responsibilities:**

* Agile Developed practitioner, actively participating in sprint planning, daily stand-ups, and retrospectives.
* Implemented ed NoSQL databases like mongo dB or DynamoDB for efficient storage and retrieval of large volumes of unstructured data.
* Collaborated with data scientists and analysts to understand data requirements and implemented ed appropriate data models.
* Implemented ed data ingestion pipelines to extracted data from diverse sources, including APIs, databases, and file systems.
* Developed and Executed test cases using Pytest to ensure data integrity and application functionality.
* Developed Python and Shell scripts for automation of administration tasks.
* Developed Interactive dashboards and visualizations using Tableau for effective presentation of data insights.
* Proficient in version control using Git, GitHub, and SVN for seamless Collaborated within Developed teams.
* Developed Hive queries for analysis and exported result sets from Hive to MySQL using Sqoop after processing the data.
* Integrated with AWS Cloud services (EC2, S3, Redshift) for computing power, data storage, and data warehousing.
* Deployed applications and services in both AWS and Azure environments, ensuring scalability, availability, and security.
* Expertise in data parsing, manipulation, and preparation, utilizing methods such as descriptive statistics, regex, split and combine, remapping, merging, subset, reindexing, melting, and reshaping.
* Strong command of Python libraries (Pandas, NumPy, SciPy) for data analysis, manipulation, and statistical modelling.
* Collaborated with Data Engineer teams in Data Acquisition, Deploying Hadoop MapReduce and HDFS for extracted historical and real-time data.
* Analyzed partitioned and bucketed data, computed metrics, and extracted ed data from Twitter using Java and Twitter API.
* Created reports and dashboards using D3.js and Tableau 9.x for effective communication of data insights to technical and business teams.
* Applied data cleaning techniques to ensure data quality, including handling missing values, outliers, and inconsistencies.
* Created restful microservices using Python frameworks like Flask or Django to facilitate efficient communication and data exchange.
* Utilized d Azure cloud services, including Azure Functions and Azure Storage, for serverless computing and data storage.
* Proficient in running SQL scripts, creating indexes, stored procedures, and Deploying Data Lineage methodology for data mapping, and maintaining data quality.
* Collaborated with cross-functional teams to understand business requirements and translated them into technical solutions, ensuring alignment with client objectives.

**Environment:** Python, Drop wizard, Jira, Tableau, Spring Boot, Kafka, JSON, GitHub, LINUX, Django, Flask, Varnish, Nginx SOA, Teradata, REST, CI/CD.

**Brio Technologies Pvt Ltd, Hyderabad, India. Jul 2015 to Jul 2016**

**Python Developer & Data Engineer**

**Responsibilities:**

* Involved in Agile methodologies, participated in daily Scrum meetings, and contributed to Sprint planning.
* Provided support across all project phases, including Design, Developed, Deployment, Testing, and Implemented, creating efficient pipelines.
* Implemented ed robust data cleaning and transformation techniques to ensure data quality and consistency.
* Implemented ed streaming data pipelines using technologies like Apache Kafka or AWS Kinesis for real-time data ingestion and processing.
* Developed and maintained Extracted, Transform, Load (ETL) pipelines using Python and cloud-based services like AWS Glue or Azure Data Factory.
* Developed and maintained data models and database schemas in cloud databases like Amazon RDS, Microsoft Azure, and Cosmos DB.
* Stayed abreast of emerging technologies and industry trends in cloud computing, data engineering, and Python Developed to drive continuous improvement in project delivery.
* Collaborated with cloud infrastructure providers such as AWS and Azure for Deployment and management of applications and services.
* Integrated with cloud storage services such as Amazon S3 and Azure Blob Storage for efficient data storage and retrieval.
* Leveraged Jenkins pipelines for microservices builds, facilitating Docker registry Deployment and Kubernetes Integrated.
* Configured Maven poms to automate build processes and integrated with tools such as SonarQube for enhanced code quality.
* Utilized d Python libraries such as Pandas, NumPy, and SciPy for data manipulation, analysis, and statistical modelling.
* Ensured data governance compliance, adhering to privacy regulations, and maintaining high data security standards.
* Created restful APIs using Python frameworks like Flask or Django for seamless data Integrated and access.
* Crafted data visualizations and dashboards utilizing Python visualization libraries such as Matplotlib and Seaborn.
* Optimized data processing Workflows for enhanced performance and scalability, incorporating distributed computing frameworks like Apache Spark.
* Conducted performance tuning and optimization of data processing tasks, identifying, and resolving bottlenecks.
* Interfaced with supervisors, artists, systems administrators, and production to ensure adherence to production deadlines.

**Environment:** Visual Studio, Python, Django Framework, PyCharm, Idle, Spyder, MongoDB, IS and MYSQL, HTML, CSS, JavaScript, Eclipse, Scala, PHP.