Chandana R

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Professional Summary:

- Highly skilled **Python Developer** with extensive 7+ years of experience in designing, developing, and deploying robust software solutions.
- Experienced with full **software development life-cycle (SDLC)**, architecting scalable platforms, object-oriented programming (**OOPs**) database design.
- Experience in object-oriented programming (**OOP**) concepts like **Multi-Threading**, **Exception Handling** and **Collections** using **Python**.
- Proficient in a wide range of **Python** libraries and frameworks, including **Django, Flask, Pandas, NumPy**, and **TensorFlow**.
- Experienced in cloud computing platforms such as **AWS, Azure,** and **Google Cloud Platform**, adept at building scalable and reliable cloud-based applications.
- Experience with monitoring and scaling infrastructure services, testing and deploying infrastructure templates with **CI/CD** automation.
- Proven track record of leveraging **Python** for automation tasks, including cloud infrastructure provisioning, configuration management, and deployment automation.
- Experience in developing Web-Applications implementing **Model View Control** (**MVC**) architecture using Django web application framework.
- Strong expertise in web development technologies such **as HTML5, CSS3, JavaScript**, and popular front-end frameworks like **AngularJS** and **ReactJS**.
- Proficient in database management with **SQL, NoSQL databases**, and **ORM** frameworks like **SQLAlchemy**.
- Skilled in utilizing Python for data analysis, visualization, and machine learning applications, employing libraries such as **Matplotlib, Seaborn,** and **scikit-learn**.
- Experience in managing datasets using **Panda** data frames and **MySQL**.
- Experience in composing **API's** along with **Web Services** over **Python**.
- Having experienced in **Agile** Methodologies, **Scrum stories** and **sprints** experience in a **Python** based environment, along with **data analytics**, **data wrangling** and **Excel data extracts**.
- Excellent problem-solving skills and ability to collaborate effectively in cross-functional teams, delivering high-quality solutions on time and within budget.
- Passionate about staying updated with the latest advancements in **Python** and **cloud technologies**, continuously seeking opportunities for skill enhancement and professional growth.

Technical Skills:

Languages	Python 3.x/2.7, SQL

Python Framework	Flask, Django
Python Libraries	NuMpy, scipy, Matplotlib, python-twitter, Pandas dataframe, networkx, urllib2, MySQLdb
IDE'S	Eclipse, PyCharm, PyDev
Cloud Technologies	**Azure** (Compute, Databases, Containers, Web, Networking, Dev-ops & Monitor) **GCP** **AWS** (EC2, Lambda, SQS, SNS, RDS, Kinesis, S3, CloudWatch, Dynamo DB, Redis Cache)
Databases	MS SQL, MySQL, Oracle
Web Technologies	XML, CSS3, HTML5, DHTML, JavaScript, JQuery, MVC, Bootstrap, RESTful, AJAX, Angular JS, Java Script, JQuery
Web Services	SOAP, REST

Professional Experience:

Client: Ascension Senton Medical center, Remote || **Jan 2023 - Till Date**

Developing and maintaining software solutions to enhance the functionality and usability of the hospital's health record system. This project involves in integrating new features, improving data visualization, and ensuring compliance with regulatory standards such as HIPAA.

Title: Python Developer

Accomplishments:

- Designing, developing, and maintaining web applications using **Python 3.x, Django**, and **Flask** frameworks to meet project requirements and stakeholder needs.
- Creating responsive and user-friendly frontend interfaces using **HTML5, CSS, JavaScript,** and **Bootstrap**, ensuring cross-browser compatibility and accessibility.
- Configuring and deploying application instances on **AWS EC2**, storing static assets on **S3**, and managing relational databases using **RDS** (Relational Database Service) for scalability and reliability.
- Implementing automated build, test, and deployment pipelines using **Jenkins** to streamline the software development process and ensure code quality.
- Collaborate with data scientists, architects, and cross-functional teams to deploy, scale, and maintain **Large Language Models (LLMs)** using platforms like **SageMaker**.

- Implemented automated testing using **pytest** and **Selenium** to ensure the reliability and accuracy of the system.
- Collaborating with team members and tracking code changes using **Git** for version control, ensuring code integrity and facilitating seamless collaboration.
- Designing and optimizing **PostgreSQL** databases, ensuring data integrity, performance, and security while adhering to best practices and project requirements.
- Working on **Agile** Methodology using SDLC, TDD Approach, pair programming extensively and documenting in Confluence.
- Working on Migration of **CI/CD** automation, creating pipelines from **Jenkins** to **Azure DevOps**.
- Expertise in **Python, Java, creating API**, creating data frames, and saving to database and EDL Raw locations
- Implementing **encryption** and **authentication** mechanisms to secure sensitive data and **user authentication**, ensuring compliance with security standards and regulations.

Environments: Python 3.x, Django, Flask, JavaScript, AWS-Amazon Web Services(EC2, S3), RDS, Jenkins, pytest, Git, PostgreSQL, HTML5/CSS, JSON , JavaScript, Bootstrap, Agile and Windows , Encryption and Authentication Tools.

Client: Northern Trust, Austin, TX || **Sep 2021 – Dec2022**

Enhanced Banking Application Led the development of an enhanced online banking platform for Northern Trust, offering a wide range of products and services for personal, business, and commercial divisions. The project focused on enhancing the Online Banking for Business Users with the introduction of Web Direct application, a new feature to the traditional online banking system.

Title: Python Developer

Accomplishments:

- Conducted workshops and meetings with various business users to document business requirements for the enhanced online banking platform.
- Developed web-based applications using **Python, Django, XML, CSS3, HTML5, DHTML, JavaScript**, and **JQuery** for seamless user experience.
- Developed **Python** batch processors to consume and produce various feeds, ensuring efficient data processing.
- Used **Python** libraries such as **Pandas** and **Matplotlib** for data analysis and manipulation, enhancing decision-making processes.
- Developed data visualization applications for exploratory data analysis using **PythonMatplotlib library**, providing insights into financial data.
- Designed dynamic user interfaces with **HTML5**, **CSS**3, **Bootstrap**, **JSON,** and **AJAX** for improved user interaction.

- Built efficient **Angular.js** backend for client web application, ensuring smooth data flow and processing.
- Implemented **PySpark** using **Python** for faster data processing, utilizing data frames and temporary table SQL.
- Developed **Restful Microservices** using **Django** and deployed them on **AWS** servers using **EBS** and **EC2** for scalable and reliable services.
- Refactored and extended large existing **Django/Python** code base, reducing code duplication and improving maintainability.
- Developed **Python** routines for web scraping to fetch data for selected options, improving data retrieval processes.
- Used collections in **Python** for manipulating and looping through different user-defined objects, enhancing data handling capabilities.
- Responsible for setting up **REST API** framework using Django and Flask for seamless data communication.
- Worked with **JSON-based REST Web Services** and **Amazon Web Services**(AWS) for data storage and management.
- Wrote **Sub Queries**, **Stored Procedures**, **Triggers**, **Cursors**, and **Functions** on **MySQL** and **PostgreSQL** databases for efficient data management.
- Involved in **Agile Methodologies**, **Scrum** stories, and **sprints** in a **Python**-based environment, ensuring efficient project management and delivery.

Environments: Python 3.x, Django, Pandas, PySpark, HTML5, DHTML, CSS3, JavaScript, Bootstrap, Angular.JS, Matplotlib, AJAX, JSON, AWS, REST, SOAP, MySQL, PostgreSQL, Agile and Windows.

Client: State street , Remote || July   2020–   July 2021

Cloud Infrastructure Automation: The project utilizes Python to automate provisioning, configuration, and deployment across AWS, Azure, and Google Cloud. Its objectives include boosting efficiency, minimizing errors, and enabling scalability by developing scripts for dynamic resource management and deployment automation. The overarching aim is to ensure consistent, reliable, and cost-optimized cloud infrastructure while adhering to organizational policies and best practices.

Title: Python Developer

Accomplishments:

- Assisted in the requirement gathering and analysis phase, conducting workshops with stakeholders to document business requirements.
- Utilized Django framework to implement **the Model-View-Controller (**MVC) architecture, ensuring a scalable and maintainable codebase.

- Developed web-based applications using **HTML5, CSS3, JavaScript, Angular.JS,** and **JQuery** for a modern and responsive user interface.
- Deployed the CPS on **AWS** infrastructure, leveraging AWS services for scalability, reliability, and security.
- Implemented **OOP** principles to design and develop reusable and maintainable code components.
- Used **AJAX** for asynchronous data loading and **JSON** for data interchange between the front-end and back-end systems.
- Utilized Python libraries including **Numpy, Pandas, Matplotlib, Scipy,** and **PyTables** for data analysis and visualization, providing insights into claims data.
- Managed and maintained the Oracle database, writing **SQL** and **PL/SQL** queries for data retrieval and manipulation.
- Worked in an **Agile** environment, participating in sprint planning, daily stand-ups, and sprint reviews, ensuring timely delivery of features.
- Collaborated with designers to create a user-friendly interface, ensuring a seamless user experience for claims processing.
- Integrated the CPS with external systems and **APIs** for seamless data exchange, improving workflow efficiency.
- Conducted unit tests, integration tests, and user acceptance tests to ensure the reliability and accuracy of the CPS.
- Documented technical specifications, architecture designs, and implementation details for future reference and team collaboration.
- Proactively identified areas for improvement and implemented enhancements to the CPS, ensuring it met the evolving needs of the business and its customers.

Environment: Python 3.x, Django, MVC, HTML5, CSS3, JavaScript, Angular.JS, AWS, OOP, AJAX, JQuery, JSON, Numpy, Pandas, Matplotlib, Scipy, PyTables, Oracle, SQL, PL/SQL and Agile and Windows.

Client: QHR solutions Hyderabad, India || May 2017 – Jun 2020

- **HealthCare Plus** proprietary application serves as a comprehensive solution for Patient Administration, Billing, and Pharmacy Management within the hospital. Key functionalities include registering and documenting patient information, managing hospital admissions, assigning insurance details for billing purposes, tracking internal transfers, and generating discharge summaries. The Billing module accommodates various payment methods, while the Pharmacy Management component involves maintaining drug compositions, batch-wise drug stock, and categorizing drugs for reporting purposes.

Ttitle: Python Developer

Accomplishments:

- Involved in the Design, development, test, deploy and maintenance of the website.
- Created **Python** batch processors for handling various data feeds.
- Utilized **Django** framework for web application development.
- Developed internal auxiliary web applications using **Python Flask framework**, incorporating **CSS/HTML** for the front-end.
- Employed **Bootstrap** for managing and organizing **HTML** page layout.
- Implemented **Django** evolution and manual **SQL** modifications to adjust Django models while preserving data integrity during production.
- Utilized **HTML5, CSS3, JQuery, JSON**, and **JavaScript** for front-end development.
- Utilized **Angular.js** for organizing **HTML** page layout.
- Managed large datasets using **Panda** data frames and **MySQL**.
- Employed **Python**-based GUI components for front-end functionality.
- Executed various mathematical operations using Python libraries for calculations.
- Conducted troubleshooting, fixed bugs, and deployed **Python** bug fixes for main applications serving both external customers and internal customer service teams.
- Wrote Python code for retrieving and manipulating data.

Environment: Python, Django, HTML5, CSS3, JavaScript, Bootstrap, Angular.JS, Panda, JQuery, JSON, MySQL and Windows.

References: Will be provided upon request.