

# SUNEETHA ANKALA

Senior Full Stack Engineer Python

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Over 9 years of software development experience with a strong proficiency in Python, PHP, Flask, Django, and Tkinter. Experienced in system design, application development, testing, and operational stability within large corporate environments. Skilled in deploying applications on AWS, Azure, and Google Cloud, and integrating third-party APIs and payment gateways. Comprehensive knowledge of the Software Development Life Cycle (SDLC) and agile methodologies including CI/CD, application resiliency, and security.

## EXPERIENCE

**Glasocean Electric, Irvine**

09/2022 - Present

### Full Stack Developer

- Built **database model, Views and API's** using **Python** for interactive web-based solutions.
- Placed data into **JSON** files using Python to test Django websites. Used Python scripts to update the content in the database and **manipulate files**.
- Developed web-based application using Django framework with python concepts.
- Generated Python Django forms to maintain the record of online users.
- Used **Django & Flask APIs** to access the database.
- Involved in Python OOD code for **quality, logging, monitoring, and debugging** code optimization.
- Skilled in using Collections in Python for manipulating and looping through different user defined objects.
- Wrote Python modules to view and connect the **Apache Cassandra** instance.
- Created Unit test/ regression test framework for working/new code.
- Installed and maintained web servers **Tomcat and Apache HTTP** in UNIX.
- Utilized standard Python modules such as CSV, itertools and pickle for development.
- Developed efficient **Django** for client web based applications.
- Responsible for designing, developing, testing, deploying and maintaining the web application.
- Designed and developed the UI for the website with HTML, XHTML, CSS, Java Script and AJAX.
- Responsible for managing large databases using **MySQL & MongoDB**
- Wrote and executed various MySQL database queries from Python-MySQL connector and **MySQL db package**.
- Used the Python's modules **NumPy, pandas, matplotlib**, etc. for generating complex graphical data, creation of histograms etc.
- Developed and designed automation framework using **Python and Shell scripting**.
- Involved in debugging and troubleshooting issues and fixed many bugs in two of the main applications which are the main source of data for customers and the internal customer service team.
- Implemented **SOAP/RESTful** web services in JSON format.
- Associated with debugging the applications monitored on **JIRA** using **Agile** methodology.
- Attended many day-to-day meetings with developers and users and performed QA testing on the application.
- Proficient in web scraping and data extraction using Python libraries such as BeautifulSoup, Scrapy and Selenium. Skilled in retrieving and parsing data from web pages, APIs, and other sources for analysis and integration into applications.
- Experience in using containers like Docker.

**Pluvial.ai, Irvine**

09/2022 - Present

### Senior Software Engineer

- Developed APIs and database models using Python Django REST APIs.

- Worked extensively on ArcGIS, Planet Data, and Esri for geospatial data retrieval and analysis.
- Designed automated workflows with Python to validate GIS components.
- Developed Python scripts to integrate ArcGIS API for Python and Planet API, enabling seamless geospatial data retrieval and analysis workflows.
- Coded scripts to enhance production processes, decreasing the execution time of automated tests on Jenkins by 25%.
- Created custom geospatial analysis tools and models using ArcPy and Esri's ModelBuilder.
- Implemented spatial data visualization solutions using Esri's mapping libraries and tools.
- Conducted spatial data quality assessments and implemented data correction workflows.
- Integrated real-time data streams with ArcGIS Online and Esri's cloud services for dynamic mapping solutions.
- Developed and maintained geospatial databases, ensuring data accuracy and integrity.
- Utilized Esri's ArcGIS Pro for advanced spatial analysis and map production.
- Collaborated with cross-functional teams to design and implement GIS solutions tailored to client needs.

## **Bank Of America**

12/2021 - 09/2022

### **Application Development Specialist**

- Responsible for establishing and leading for a leading US-based banking client via Python, SQL.
- Interacting with Business teams and project teams to understand requirements.
- Working with onsite/offshore development teams to make sure the assigned work gets delivered in sprint on time and help the team achieve higher velocity in the project.
- Developed REST Services in Python, Flask, Django, node js and PHP for Mobile Apps.
- Experience in creating websites with CMS platforms like WordPress.
- Skilled in deploying applications on AWS (EC2, S3), Azure, GCP, and Godaddy servers.
- Developed robust and scalable software solutions using Python, leveraging frameworks such as Django and Flask to build web applications.
- Designed and implemented RESTful APIs for seamless integration with front-end interfaces and third-party services.
- Utilized Python libraries like NumPy, Pandas, and SciPy for data manipulation, analysis, and machine learning applications.
- Collaborated with cross-functional teams to gather requirements, define project scopes, and deliver solutions that met client needs and business objectives.
- Implemented unit tests and conducted test-driven development (TDD) to ensure code quality, reliability, and maintainability.
- Deployed applications to cloud platforms like AWS and Azure, configuring infrastructure and services using tools such as Docker and Kubernetes.
- Optimized application performance and scalability through code refactoring, database optimization, and caching strategies.
- Provided technical support and troubleshooting, addressing issues promptly to minimize downtime and ensure a positive user experience.
- Contributed to code reviews, mentoring junior team members, and fostering a collaborative and innovative development environment.
- Stayed abreast of industry trends and emerging technologies, continuously enhancing skills and exploring opportunities for process improvement.

## **Ericsson** **IT Analyst**

03/2019 - 12/2021

- Developed TOSCA-based service orchestration with Python, Flask for Telecom service provider and SQL alchemy.
- Handled Devops operation like docker images builds and deployed it into Kubernetes.
- Managed agile team and assigned tasks, set design review meetings, and ensured team members' understanding of requirements and proposed design.
- Worked closely with the customer throughout the development cycle ensuring the proposed design met customer requirements.
- Employed Python scripting for automation tasks, streamlining development workflows and enhancing productivity across the team.
- Implemented best practices for code quality and maintainability, including unit testing, code reviews, and adherence to PEP 8 standards.
- Deployed applications to cloud platforms such as AWS and Google Cloud Platform (GCP), utilizing infrastructure-as-code tools like Terraform and managing resources with services like AWS Lambda and Google Cloud Functions.
- Ensured the security of applications and data through secure coding practices and integration of authentication and authorization mechanisms using Python frameworks and libraries.
- Provided technical leadership and mentorship to junior developers, fostering a collaborative and learning-oriented team environment.
- Actively participated in agile development processes, including sprint planning, daily stand-ups, and retrospectives, to drive continuous improvement and delivery of high-quality software products.

## **USM Business Systems**

05/2018 - 02/2019

### **Software Engineer**

- Location tracking with the help of Google API integration.
- Project development head for this project.
- Proficient in various programming languages including Java, Python, and Node, with a strong understanding of object-oriented principles.
- Demonstrated experience in developing and maintaining complex software systems for a variety of industries, including finance and healthcare.
- Skilled in designing and implementing efficient algorithms and data structures to solve complex problems.
- Experienced in agile development methodologies, continuous integration, and test-driven development to ensure high-quality code.
- Strong communication skills, able to collaborate with cross-functional teams and effectively communicate technical concepts to non-technical stakeholders.

## **C-TEL INFOSYSTEMS PVT LTD**

10/2016 - 05/2018

### **Software Engineer**

- Developed and maintained robust, scalable web applications and microservices using Python and associated frameworks such as Django, Flask, and FastAPI, ensuring high performance, reliability, and security.
- Designed and implemented RESTful APIs to facilitate seamless communication between frontend interfaces and backend services, following best practices for API design and documentation.
- Leveraged Python libraries such as SQLAlchemy and Django ORM for efficient database interaction, including schema design, querying, and optimization.
- Utilized asynchronous programming paradigms with Python's asyncio library to build real-time, high-concurrency applications, enhancing responsiveness and resource utilization.
- Applied principles of test-driven development (TDD) and behavior-driven development (BDD) to write automated unit tests and integration tests using frameworks like pytest and behave, ensuring code quality and reliability.

**Avontix Solutions Pvt. Ltd**  
**Software Engineer**

07/2014 - 10/2016

- Designed and implemented complex algorithms and data structures in Python to address business challenges, optimizing performance and scalability.
- Developed web scraping and automation scripts using Python libraries such as BeautifulSoup and Selenium, extracting data from various sources and automating repetitive tasks.
- Designed and implemented custom Django middleware and Flask extensions to add functionality and enhance the capabilities of web frameworks.
- Integrated Python-based machine learning models with web applications, developing APIs and microservices to expose predictive analytics capabilities to end users.
- Actively participated in tech talks, workshops, and conferences related to Python and software engineering, sharing knowledge and experiences with peers and the broader community.
- Mentored interns and junior developers, providing guidance on Python best practices, software design principles, and career development.
- Conducted code refactoring and performance optimization activities in Python codebases, identifying bottlenecks and implementing solutions to improve efficiency and resource utilization.
- Demonstrated strong problem-solving skills and analytical thinking in resolving complex technical challenges and implementing innovative solutions using Python.

**EDUCATIONS**

**VVIT Engg. College, Guntur**  
**Bachelors in computers**

06/2010 - 05/2014

**Vasireddy Venkatadri Institute of Technology, School of Computing Science and Engineering, India-May 2014**

**Course:**Bachelor of Engineering in Computer Science and Engineering,

**Coursework:** Data Structures and Algorithms, Object Oriented Programming, Internet and web programming

**SKILLS**

**Python:**

- **Expertise in Python Programming:** Proficient in Python, with extensive experience in developing high-quality software solutions. Demonstrated ability to leverage Python's powerful features and libraries to solve complex problems and deliver robust, scalable applications.
- **Web Development with Django and Flask:** Experienced in building web applications using Python-based frameworks such as Django and Flask. Skilled in designing and implementing RESTful APIs, managing authentication and authorization, and optimizing performance for web applications.
- **Data Analysis and Visualization:** Strong proficiency in data manipulation, analysis, and visualization using Python libraries like NumPy, Pandas, and Matplotlib. Capable of processing large datasets, performing statistical analysis, and generating meaningful insights to drive informed decision-making.
- **Asynchronous Programming:** Proficient in asynchronous programming paradigms using Python's asyncio library. Skilled in writing non-blocking, concurrent code to improve performance and efficiency in I/O-bound and CPU-bound applications.
- **Scripting and Automation:** Experienced in writing Python scripts for automation tasks, including system administration, data processing, and workflow automation. Familiar with scripting languages like Bash and PowerShell for cross-platform automation.
- **Web Scraping and Data Extraction:** Proficient in web scraping and data extraction using Python libraries such as BeautifulSoup and Scrapy. Skilled in retrieving and parsing data from web pages, APIs, and other sources for analysis and integration into applications.
- **DevOps and Infrastructure Automation:** Knowledgeable in DevOps practices and infrastructure automation using tools like Ansible, Terraform, and Docker. Experienced in provisioning and configuring infrastructure, managing deployments, and orchestrating containerized applications.

- **Contributions to Open Source:** Actively engaged in the Python open-source community, contributing to projects, submitting bug fixes, and participating in discussions. Demonstrated commitment to continuous learning and sharing knowledge with the broader community.

**REST:** • **Proficient in Building APIs:** Proficient in developing lightweight and flexible REST APIs with Flask, Django REST Framework (DRF), FastAPI, leveraging its simplicity and extensibility for rapid development. Experienced in defining routes, handling requests, and serializing responses to create robust API endpoints.

**CI/CD:** • **Proficient in CI/CD Pipelines:** Experienced in setting up and configuring CI/CD pipelines to automate the build, test, and deployment processes for software applications. Skilled in using CI/CD tools and platforms such as Jenkins, GitLab CI/CD, Travis CI, and CircleCI to streamline software delivery and ensure quality and reliability.

- **Automated Build and Test Processes:** Proficient in automating build and test processes as part of CI/CD pipelines, including compiling source code, running unit tests, and performing code quality checks. Skilled in configuring build scripts, test suites, and static code analysis tools to validate code changes and identify issues early in the development lifecycle.
- **Version Control Integration:** Experienced in integrating CI/CD pipelines with version control systems like Git and SVN to trigger automated builds and tests based on code changes. Skilled in setting up webhooks, triggers, and branch-based workflows to facilitate continuous integration and collaboration among development teams.

**Cloud Platforms:** • **Proficient in Cloud Computing:** Experienced in leveraging cloud platforms such as Microsoft Azure, Amazon Web Services (AWS), and Google Cloud Platform (GCP) to design, deploy, and manage scalable and resilient cloud-based solutions. Skilled in understanding cloud concepts, services, and best practices to optimize performance, security, and cost-efficiency.

- **Azure Cloud Services:** Experienced in deploying and managing workloads on Azure, including virtual machines, Azure App Service, Azure Functions, Azure Kubernetes Service (AKS), Azure Database, Azure Storage, and Azure Active Directory. Skilled in configuring networking, security, and identity management services on Azure to ensure secure and compliant cloud deployments.
- **AWS Cloud Services:** Proficient in working with AWS services such as Amazon EC2, Amazon S3, Amazon Lambda, Amazon ECS, Amazon API Gateway, and Amazon IAM. Experienced in setting up virtual environments, storage solutions, database instances, serverless applications, and API endpoints on AWS. Skilled in implementing AWS security best practices and compliance controls to protect data and resources.
- **GCP Cloud Services:** Knowledgeable in deploying and managing cloud workloads on GCP, including Compute Engine, Cloud Storage, Cloud SQL, Google Kubernetes Engine (GKE), Cloud Functions, and Google Cloud Pub/Sub. Skilled in using GCP services for data analytics, machine learning, and big data processing, such as BigQuery and TensorFlow. Experienced in configuring GCP networking, IAM, and security features for secure and efficient cloud deployments.
- **Hybrid Cloud Environments:** Experienced in integrating on-premises infrastructure with cloud environments to create hybrid cloud solutions. Skilled in using Azure Hybrid Services, AWS Hybrid Cloud, and GCP Anthos to extend on-premises workloads to the cloud, enabling seamless migration, integration, and scalability.
- **Infrastructure as Code (IaC):** Proficient in using Infrastructure as Code (IaC) tools and frameworks such as Azure Resource Manager (ARM) templates, AWS CloudFormation, and Google Cloud Deployment Manager to automate provisioning, configuration, and management of cloud resources. Skilled in defining infrastructure configurations as code, versioning infrastructure changes, and maintaining infrastructure as code repositories.
- **DevOps and CI/CD Integration:** Knowledgeable in integrating cloud platforms with DevOps practices and CI/CD pipelines to automate software delivery and deployment. Skilled in using Azure DevOps, AWS CodePipeline, and Google Cloud Build to automate build, test, and deployment processes, enabling continuous integration and continuous deployment of applications on cloud platforms.

- **Cost Management and Optimization:** Experienced in monitoring and optimizing cloud costs to ensure cost-effective usage of cloud resources. Skilled in implementing cost management tools and strategies, such as Azure Cost Management, AWS Cost Explorer, and GCP Cost Management, to monitor spending, analyze usage patterns, and optimize resource utilization for maximum cost savings.
- **Cloud Security and Compliance:** Proficient in implementing cloud security controls and compliance measures to protect data and applications on cloud platforms. Skilled in configuring network security groups, encryption, identity and access management (IAM), and compliance frameworks like GDPR, HIPAA, and SOC 2 on Azure, AWS, and GCP.
- **Continuous Learning and Certification:** Actively engaged in continuous learning and certification programs to stay updated with the latest features, services, and best practices on Azure, AWS, and GCP. Maintaining relevant certifications such as Microsoft Certified: Azure Solutions Architect, AWS Certified Solutions Architect, and Google Cloud Certified Professional Cloud Architect to validate expertise and demonstrate commitment to excellence in cloud computing.

**Docker:** • **Proficient in Containerization:** Experienced in containerization technologies such as Docker, enabling the creation, deployment, and management of lightweight, portable containers for applications and services. Skilled in creating Docker images, defining Dockerfiles, and configuring container environments for development, testing, and production deployments

**Kubernetes:** • Proficient in Kubernetes, a powerful container orchestration platform for automating deployment, scaling, and management of containerized applications. Experienced in deploying Kubernetes clusters, configuring pods, services, and deployments, and leveraging Kubernetes features such as auto-scaling, load balancing, and rolling updates for high availability and reliability

**LANGUAGES:** English, Hindi, Telugu,

## SOFTWARE PROFICIENCY

Technologies.	:	Python, Node, PHP
Frameworks	:	Flask REST, Django, Fast API, Tkinter, Laravel
Web	:	ReactJS, HTML5, JavaScript, ExtJS, jQuery, Ajax.
DevOps	:	Docker, Jenkins, Mini Kubernetes
Databases	:	MySQL, MongoDB
Tools	:	ArcGIS, Esri, Git, SVN, Jira, Mantis,
Cloud Services	:	Azure app service, Azure Blob storage
E-commerce	:	OpenCart, Shopify
IDEs	:	Eclipse, PyCharm, Jupiter, Visual Studio code.
Operating Systems	:	Windows, Linux.