

SAI SWAROOP

SOFTWARE ENGINEER

Dallas, TX • +1 (385) 988-5444 • saiswaroopkakuru@gmail.com • <https://www.linkedin.com/in/saiswaroop-k/>

Professional Summary

Results-driven Python Developer with 3+ years of experience in full-stack web development. Proven expertise in designing and implementing scalable backend solutions for diverse industries. Skilled in DevOps practices including CI/CD pipelines, containerization, and cloud deployment to streamline development and operations. Adept at collaborating with cross-functional teams to deliver high-quality software solutions. Strong problem-solving skills and a commitment to writing clean and efficient code. Passionate about staying abreast of emerging technologies to drive innovation.

Skills

- **Programming Languages:** Python, JavaScript, SQL, Bash, Java
- **Web Technologies:** Django, Flask, FastAPI, HTML, CSS, React.js
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite Aurora, Redis, RabbitMQ
- **DevOps & Cloud:** AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes
- **Cloud & IaC:** AWS (Lambda, Step Functions, ECS, S3, DynamoDB, RDS, MSK), CDK, CloudFormation, Terraform Frontend: React, Express, REST APIs, API-first design
- **Automation & Scripting:** Selenium, PyTest, Shell Scripting
- **Version Control & CI/CD:** Git, GitHub, GitLab, Jenkins, Terraform
- **Testing & Debugging:** Unit Testing, Integration Testing, Debugging Tools
- **Front-end Technologies:** HTML, CSS, JavaScript, React
- **Other Tools & Technologies:** REST APIs, GraphQL, Redis, Celery, RabbitMQ

Work History

Python /Cloud Automation Developer, 08/2024 to Current

HSBC

- Developed and deployed a Python-based web application that integrated data from multiple sources, resulting in a 25% increase in user engagement and a 20% increase in revenue.
- Developed and maintained core features of a data analytics platform, handling large datasets and optimizing query performance.
- Implemented automated testing procedures, reducing the number of bugs in production by 20% and improving overall software reliability.
- Led a team of junior developers, providing mentorship and conducting code reviews to ensure best practices.
- Collaborated with front-end developers to integrate user-facing elements with server-side logic, enhancing overall application responsiveness.
- Mentored junior developers and provided technical guidance, resulting in a 30% improvement in code quality and a 15% increase in team productivity.
- Designed the front end of the application using Python, Java, Html, CSS, Ajax, Json and jQuery.
- Used JavaScript and XML to update a portion of a webpage.
- Experienced in reviewing Python code for running the troubleshooting test-cases and bug issues.

Python Developer, 05/2023 to 08/2024

Saluki-Tech – Carbondale, IL

- Built interactive and forms and design effective email marketing campaigns that save data into the database using the DJANGO framework.
- Utilized windows task scheduler to run Python scripts which generated reports at specific intervals and sent corresponding email alerts.
- Achieved 60% improvement in system's response time by optimizing legacy data storages and search queries using PL/SQL.
- Worked on the improvement of data protection and security and created new user information solutions.
- Trained and supervised new employees and provided technical support to clients and coworkers.
- Built the maintained databases using MySQL, MongoDB, and PostgreSQL, writing optimized queries and ensuring data integrity and security.

DevOps & Software Engineer, 12/2020 to 12/2022

Value Momentum Software Services Pvt Ltd – India

- Built RESTful backend services in Java (Spring Boot) and Python (FastAPI) supporting logistics and billing workflows.
- Developed internal admin tools with React and Express.js to help teams monitor service performance and application health.
- Provisioned and managed infrastructure using Terraform and customize, ensuring reproducibility and consistent configuration.
- Implemented Prometheus-based alerting and centralized log ingestion with ELK stack to support real-time debugging.
- Integrated Redis for caching and RabbitMQ for decoupled task queues, boosting throughput and reducing latency.
- Authored detailed runbooks, architecture diagrams, and onboarding material to support QA, DevOps, and release teams.
- Worked in Agile delivery cycles with JIRA, sprint retrospectives, peer code reviews, and delivery demos.

Projects

AI-Powered Email Classification System

FastAPI, Docker, Azure

- Built and containerized a scalable ML pipeline to classify over 100,000 enterprise emails/month with more than 95% accuracy.
- Exposed classification results through an API consumed by React dashboards, reducing triage time by 50%.
- Integrated Azure Monitor for real-time alerting and performance insights; later replicated with AWS tools.

Cloud-Native E-Commerce Platform

AWS (EKS), Spring Boot, Terraform, Jenkins

- Built microservices deployed to AWS EKS using Terraform IaC and Jenkins CI/CD with automated test and rollback strategies.
- Designed APIs to handle payments, catalog, and user session management with rate-limiting and logging.
- Monitored platform performance via Prometheus and Grafana, ensuring uptime SLAs for global users.

Certifications

AWS Certified Solutions Architect – Associate

Aws Certified Developer-Associate

Azure Fundamentals AZ-900

Education

Master of Science: Computer and information Science, 05/2024

Southern Illinois University