Srikanth Kasula

Full Stack Developer

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Professional Summary

Results-driven Full Stack Python Developer with 5+ years of experience designing, developing, and maintaining secure, scalable, and high-performance applications across finance and enterprise sectors. Specialized in backend development using Python (Flask, FastAPI, Django) and building microservices and event-driven architectures. Expertise in cloud services (AWS), CI/CD pipelines, containerization (Docker, Kubernetes), and SQL/NoSQL databases (PostgreSQL, MySQL, MongoDB).Strong background in test-driven development (TDD), application security (OAuth2, JWT, SAML), real-time data processing (WebSockets, SSE), and business process automation using AI/ML tools. Passionate about delivering cloud-native, HIPAA-compliant, and continuously improving solutions aligned with Agile methodologies.

Professional Experience

American Express | Phoenix, AZ   **Feb 2024 – May 2025**
Full Stack Python Developer
Responsibilities :

- Designed and developed scalable microservices using FastAPI and Flask for secure, real-time payment processing.
- Developed and maintained high-performance RESTful and GraphQL APIs to support large-scale financial operations.
- Contributed to building a chatbot using Python libraries to understand and respond to user queries.
- Implemented real-time transaction monitoring using WebSockets and Server-Sent Events (SSE).
- Optimized PostgreSQL databases and implemented Redis caching for faster transaction retrieval.
- Automated cloud deployments using Docker, Kubernetes, Jenkins, and AWS CDK.
- Secured APIs using OAuth2, JWT, and SAML ensuring PCI DSS compliance.
- Integrated AWS services: Lambda, EC2, S3, RDS, ECS, and API Gateway into application workflows.
- Followed TDD practices (unit, integration testing) to ensure high code quality and coverage.

JMR | Bengaluru, India   **Mar 2016 – Dec 2019**
Python Developer
Responsibilities :

- Developed REST APIs using Flask and Django for real-time stock tracking and warehouse management.
- Built interactive dashboards using AngularJS and jQuery with live inventory updates.
- Integrated barcode scanning features and AJAX-based dynamic data fetching.
- Designed scalable database schemas using PostgreSQL and MySQL.
- Developed inventory forecasting modules using Pandas, NumPy, and Matplotlib.
- Automated build and deployment workflows using Jenkins and version control through GitHub.
- Implemented OAuth2-based secure authentication and authorization mechanisms.

Technical Skills

- **Languages:** Python, Java, JavaScript, SQL, HTML, CSS
- **Frameworks & Libraries:** Flask, Django, FastAPI, React.js, Vue.js, AngularJS, jQuery
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, ECS, API Gateway), Docker, Kubernetes, Jenkins, GitHub.
- **Architectures:** Microservices, Event-Driven Systems, SaaS Applications

- **Web Technologies:** RESTful APIs, GraphQL APIs, WebSockets, Server-Sent Events (SSE)
- **Testing & Security:** PyTest, Postman, OAuth2, JWT, SAML, TDD (Unit & Integration Testing)
- **AI/ML Tools & Libraries:** TensorFlow, PyTorch, Scikit-learn, spaCy, NLTK, Pandas, NumPy
- **Version Control:** Git, GitHub
- **Monitoring:** Prometheus
- **Additional Skills:** Automation of Business Processes, Application Security Best Practices, API Gateways

Academic Projects

AI Chatbot using NLP | University of East London   **Jan 2021 – May 2021**
Master's Dissertation Project

- Designed and developed an AI-powered conversational chatbot using Flask backend and React.js frontend.
- Built secure RESTful APIs for seamless communication between services.
- Implemented Natural Language Understanding (NLU) with spaCy, NLTK, and TensorFlow for intent recognition and response generation.
- Containerized the chatbot application using Docker for environment portability and ease of deployment.

Education

- **Master's degree in computer information systems**   **Sept 2022 – Dec 2023**
  Rivier University | Nashua, NH
- **Master's degree in computer science**   **Jan 2020 – May 2022**
  University of East London | London, United Kingdom
- **Bachelor of Technology in Electronics and Communication Engineering**   **Aug 2013 – May 2017**
  Jawaharlal Nehru Technological University Hyderabad (JNTUH)
  Hyderabad, India

Certifications

- **Software Engineering Job Simulation (Wells Fargo Program)**
  Forage | May 2025
- Completed practical tasks simulating work in software engineering projects focused on creating and implementing a data model.
- Enrolment Verification Code: LC3uWeBiu2QbB2P5P