

VAMSHI REDDY SAPPATI

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SUMMARY

Software Engineer with 4+ years of enterprise experience architecting, scaling, and deploying high-throughput distributed systems, RESTful microservices, and cloud-native applications. Proven track record of optimizing database performance, reducing system latency, and integrating production AI and LLM architectures such as RAG, Vector Databases, and OpenAI APIs to drive operational efficiency. Proficient across the full software development lifecycle—from backend system design and object-oriented engineering in Python and Java to containerized CI/CD cloud deployments across AWS, Docker, and Kubernetes.

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, Go, SQL, HTML5, CSS3, Bash
Backend & API Frameworks: Spring Boot, Django, FastAPI, Node.js, Express.js, RESTful APIs, gRPC, GraphQL, Microservices Architecture
Frontend Technologies: React.js, Next.js, Redux, Vue.js, Tailwind CSS, Responsive Web Design
J2EE Technologies: Servlets, JSP, EJB, JPA, Hibernate, JDBC, JMS, JAX-RS, JAX-WS
AI Integration: LLM, LangChain, LlamaIndex, RAG, OpenAI API, Hugging Face, Pinecone, ChromaDB, Weaviate, Prompt Engineering
Architecture & System Design: Distributed Systems, Event-Driven Architecture, Multithreading & Concurrency, Apache Kafka, RabbitMQ, Object-Oriented Programming
Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, Cassandra, Elastic Search, DynamoDB, Database Schema Design
Cloud & DevOps Infrastructure: AWS, EC2, S3, Lambda, ECS, RDS, Microsoft Azure, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions, Jenkins, Terraform, NGINX
Software Development Lifecycle & Practices: Agile, Scrum, Test-Driven Development, PyTest, JUnit, Jest, Git / GitHub, Code Reviews

PROFESSIONAL EXPERIENCE

- DoorDash, USA | *Software Engineer*

August 2024 – Present

 - Architected and scaled low-latency backend **microservices** using **Java, Spring Boot** to handle real-time order processing and delivery dispatch, maintaining 99.99% system uptime across high-volume peak ordering traffic.
 - Architected an **intelligent RAG-driven** order search and recommendation pipeline using **Python, LangChain, Pinecone Vector DB**, and **OpenAI APIs**, enabling semantic item matching across high-volume catalog data and increasing personalized search conversion by **22%**.
 - Optimized relational and **NoSQL database layers**, including **PostgreSQL, DynamoDB, and Redis**, while leveraging **Apache Kafka** event streams to decouple asynchronous order state synchronization, improving overall API response times by **40%** under heavy concurrent loads.
 - Integrated intelligent **LLM-assisted customer support** services using **Python** and **OpenAI APIs**, automating common delivery query resolutions and cutting manual support escalation rates by **18%**.
 - Streamlined deployment pipelines and cloud infrastructure using **Docker, Kubernetes, AWS (EC2, ECS, Lambda)**, and GitHub Actions, automating unit testing like **JUnit, PyTest** to reduce CI/CD deployment cycle times by 25%.
 - Designed and secured **RESTful** and **gRPC API** gateways enforcing **OAuth 2.0** and **JWT authentication**, implementing rate-limiting policies to safeguard downstream services against traffic surges and unauthorized access.
- Dixon Technologies, India | *Software Engineer*

August 2020 – December 2022

 - Engineered high-throughput inventory and **IoT tracking microservices** using **Python, Django, FastAPI** and **Node.js, Express**, integrating factory-floor telemetry data into MongoDB and Cassandra to enable real-time supply chain visibility across 10+ manufacturing facilities.
 - Modernized legacy enterprise J2EE applications built on **Servlets, JSP, JDBC**, and **EJB**, refactoring monolithic backend workflows into modular **RESTful APIs** backed by **MySQL**, which reduced server resource utilization by 28%.
 - Developed interactive client-facing dashboards using **React.js, Next.js**, and **Redux**, delivering real-time metrics on manufacturing throughput, scrap rates, and component tracking for enterprise partners.
 - Built an automated documentation search pipeline using **Python** and **NLP classification algorithms**, enabling factory engineers to rapidly query complex technical schematics, cutting documentation search time by **40%**.
 - Automated **CI/CD pipelines** and cloud infrastructure provisioning using **Jenkins, Docker, Azure**, and **Terraform**, establishing standardized deployment workflows that accelerated software release cycles from weeks to days.
 - Optimized backend data streaming workflows for **IoT device management** using **Java**, integrating **Apache Kafka** message brokers and **Redis** to eliminate query latency and ensure zero data loss during high-traffic manufacturing shifts.

EDUCATION

MS in Computer Science, Auburn University at Montgomery, AL January 2023 – December 2024

PROJECTS

- PulseStream – Low-Latency Distributed Event Streaming Platform**
- Architected a real-time event ingestion platform in Java (Spring Boot) and Apache Kafka capable of processing 50K+ events/sec, implementing Redis caching, Docker, and Kubernetes (EKS) monitoring via Prometheus, Grafana to maintain sub-50ms query latency.
- OmniSearch – Enterprise GenAI Knowledge & RAG Engine**
- Engineered an enterprise Retrieval-Augmented Generation platform using Python, LangChain, Pinecone Vector DB, and OpenAI APIs, vectorizing 100K+ enterprise documents to achieve sub-200ms semantic search retrieval with SSE streaming in a React, Next.js interface.

CERTIFICATIONS

- [AWS Certified Developer – Associate](#)
- [Microsoft Certified: Azure Developer Associate](#)
- [Microsoft- GitHub Copilot](#)