Banudeep Reddy Gade

Software Developer

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Summary

Software Developer with 4+ years of experience building Java/Spring Boot microservices and React frontends for banking and healthcare. Design and ship event-driven, cloud-native systems on AWS that handle high-volume transactions, improve fraud detection, and raise reliability with strong observability and CI/CD, with recent work on real-time voice agents and AI agents integrated into production workflows.

Education

George Mason University — Fairfax, VA, USA
Master of Science in Computer Science — *Aug 2023 – May 2025*

Visvesvaraya National Institute of Technology — Nagpur, India
Bachelor of Technology in Computer Science Engineering — *Jul 2018 – Apr 2022*

Technical Skills

Languages: Java, JavaScript, TypeScript, SQL, Python
Backend: Spring Boot, FastAPI, Node.js, Spring MVC, Spring Security, Microservices, REST APIs, Apache Kafka
Frontend: React.js, Redux, React Hooks, HTML5, CSS3, Bootstrap, Tailwind
AI/ML & Data: LangChain, LangGraph, RAG, MCP, PyTorch, TensorFlow, Pandas, NumPy
Databases: MySQL, PostgreSQL, MongoDB, Pinecone, Chroma
Cloud/DevOps: AWS (ECS/EKS, Lambda, S3, API Gateway, CloudWatch), Jenkins, Docker, Maven, Gradle
Testing/Quality: JUnit, Mockito, Selenium, Postman, Swagger/OpenAPI
Tools & Process: Git/GitHub, Jira, Agile/Scrum, SDLC, Linux/Windows
Certifications: AWS Certified Developer – Associate, AWS Certified Cloud Practitioner, AWS Certified AI Practitioner, Google Cloud Associate Cloud Engineer

Experience

Software Developer — Aug 2024 – Present
Wells Fargo — *VA, USA*

- Owned banking features end-to-end by partnering with product owners and building Java/Spring Boot microservices with Kafka pipelines, reducing transaction latency and stabilizing high-volume digital workflows against SLA breaches.
- Delivered responsive React.js + Redux dashboards for transaction monitoring and analytics, giving risk and operations teams real-time visibility into anomalies and SLA breaches.
- Strengthened fraud detection by wiring Pandas-based anomaly checks into the data pipeline, helping reduce leakage and supporting compliance teams with more actionable alerts.
- Restructured schemas and tuned MySQL queries for payment settlements, increasing throughput and availability by ˜40% for critical transaction flows.
- Designed and deployed AWS architectures with API Gateway, ECS/EKS, and Lambda to securely handle millions of concurrent transactions, adding CloudWatch monitoring to surface bottlenecks and keep uptime high.
- Improved release quality and speed by expanding JUnit-based regression coverage and standardizing CI/CD via GitHub workflows, cutting manual effort and stabilizing regulated release cycles.

Software Developer — Sep 2020 – Jul 2023
Capgemini — *India*

- Developed Spring MVC services with Spring Security to enforce HIPAA-compliant authentication and authorization, protecting sensitive patient and healthcare record data across core platforms.
- Built React healthcare portals with Redux and Hooks, enabling clinicians and patients to access dashboards, appointments, and records through responsive, accessible UIs.
- Created TensorFlow-based predictive models on patient datasets to flag early disease-risk patterns, giving clinical teams decision support for proactive interventions.
- Optimized PostgreSQL performance for high-traffic workflows by refining queries and indexing strategies, improving response times and ensuring secure, compliant data access.
- Containerized services with Docker and automated Jenkins pipelines, pairing them with systematic API validation using Postman and OpenAPI to ensure reliable releases and interoperability with third-party healthcare systems.

Projects

Modular Voice Agent – Cascading STT → LLM → TTS Pipeline — GitHub

- Built a web-based voice assistant with a cascading STT → LLM → TTS pipeline at 16kHz, using AudioWorklet and WebSockets to support real-time conversations with live transcription and mid-response interruption (barge-in).
- Designed a provider-agnostic architecture that mixes Deepgram/Azure Speech for STT/TTS with OpenAI GPT-4 / Azure OpenAI for LLM processing, wired through a Python `aiohttp` backend and configurable via environment variables and system prompts.
- Containerized the service with Docker and deployed to Azure Container Apps on a single 8080 port for HTTP/WebSocket traffic, adding connection management, error handling, optional audio recording, and health checks for production-ready reliability.