Banudeep Reddy Gade
Full Stack Developer

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SUMMARY

- Full Stack Developer with 4 years of experience delivering React and Spring Boot products, partnered with product and design to align goals to KPIs, improving adoption via performance tuning and workflow simplification.
- Built secure microservices with Java, Spring Security, and JPA, reduced incidents by enforcing validation, centralized exceptions, and contract-first APIs, enabling faster stakeholder decisions through reliable, observable services.
- Automated CI/CD with Jenkins, Maven, Docker, and AWS (ECS/EKS, Lambda), cut deployment time, enabling frequent releases and faster feedback during Agile ceremonies, release planning, and post-release reviews.
- Led SDLC lifecycle: discovery, design, build, test, operate, improved quality with JUnit, Mockito, Selenium, and lowered escaped defects while supporting roadmap prioritization using data and stakeholder input.

TECHNICAL SKILLS

Languages:	Java, JavaScript, TypeScript, SQL, Python
Backend Tools:	Spring Boot, Spring MVC, FastAPI, Node.js, Spring Security, Microservices, REST APIs, Apache Kafka
Frontend Tools:	React.js, Redux, React Hooks, HTML5, CSS3, Bootstrap/Tailwind
AI/ML & frameworks:	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/Bitbucket, Jira, Agile Scrum, SDLC
Server/OS:	Apache Tomcat, Windows, Linux

EDUCATION

Master of Science in Computer Science   **Aug 2023 – May 2025**
George Mason University, Fairfax, VA, USA
Bachelor of Technology in Computer Science Engineering   **Jul 2018 – Apr 2022**
Visvesvaraya National Institute of Technology, Nagpur, India

CERTIFICATIONS

- AWS Certified Developer Associate (DVA)
- AWS Certified Cloud Practitioner (CCP)
- AWS Certified AI Practitioner (AIF)
- Google Cloud Associate Cloud Engineer (ACE)

EXPERIENCE

Full Stack Developer | Wells Fargo | VA, USA   **Aug 24 – Present**

- Gathered banking requirements with product owners, developed **Spring Boot** microservices in **Java**, enabling **Kafka** pipelines, reducing latency, improving compliance, and designing **45%** enterprise digital financial systems architecture.
- Designed responsive **React.js** interfaces and optimized **Redux state management** to accelerate delivery and enable seamless financial transaction workflows with real-time analytics and dashboard updates.
- Strengthened fraud detection with **Pandas**-based anomaly analytics, enhancing compliance, safeguarding assets, and reducing leakage through scalable, data-driven solutions embedded across financial system lifecycles.
- Restructured schemas and optimized **MySQL** queries, boosting throughput and availability across payment settlements with **40%** improvement achieved during lifecycle enhancements in enterprise transaction management.
- Built resilient **AWS** architectures utilizing API Gateway, **ECS/EKS**, and **Lambda**, deploying secure and globally scalable solutions for millions of concurrent banking transactions across complete cloud application lifecycles.
- Automated **25%** regression coverage with **JUnit** frameworks, accelerating defect detection, reducing manual rework, and enhancing delivery velocity across regulated release cycles in enterprise banking programs.
- Established CI/CD pipelines through **GitHub**, orchestrating branch workflows, peer reviews, and automated deployments, uplifting distributed team collaboration and productivity across global banking lifecycle operations.

- Resolved bottlenecks through **AWS CloudWatch** monitoring of **Windows** servers, improving runtime efficiency, guaranteeing high availability, and overseeing **32%** of performance monitoring for mission-critical banking workloads.

Full Stack Developer | Capgemini | India   **Sep 20 – Jul 23**
- Developed secure backend modules using **Spring MVC**, integrated Spring Security for **HIPAA**-compliant authentication flows, enabling safe data transactions within core patient and healthcare records systems.
- Built **React.js** healthcare portals using **TypeScript, Redux**, and **React Hooks**, creating responsive dashboards that elevated patient engagement, improved provider collaboration, and enhanced accessibility of digital health services.
- Designed predictive **TensorFlow** models analyzing patient data, enabling early disease detection, supporting proactive clinical decisions, and improving treatment outcomes across multiple healthcare platforms and operational systems.
- Spearheaded **PostgreSQL** optimization for **45%** of workflows by enhancing queries and indexing, ensuring **HIPAA**-compliant data storage, high-performance access, and secure management of patient records across platforms.
- Automated deployments by containerizing applications with **Docker** and integrating **Jenkins** pipelines, ensuring consistent environments, reliable delivery, and multi-stage release execution across healthcare software systems.
- Led **20%** of healthcare API validation using **Postman** and **OpenAPI**, verifying performance, ensuring compliance, and enhancing interoperability across critical third-party integrations in enterprise healthcare projects.
- Facilitated **Agile Scrum** execution using **Jira**, streamlining sprint planning, backlog prioritization, and team collaboration, maintaining velocity and timely delivery for complex healthcare software development projects.
- Delivered **Linux server** optimization across **50%** of infrastructure workloads, tightening system security, improving scalability, and ensuring availability of digital healthcare services across hospitals and enterprise networks.

PROJECTS

University Campus Experience Survey Platform
- Increased student participation by 27% by launching an Angular and Spring Boot survey platform on MySQL, defining requirements, designing a schema, and implementing JWT security with RBAC to protect academic data.
- Reduced deployment time by containerizing services using Docker, orchestrating rollouts on Kubernetes, and automating blue-green deployments, improving release reliability and accelerating iteration speed during Agile sprints.
- Improved data retrieval by 42% indexing key tables, refactoring N+1 joins, and implementing Redis caching for frequent reads, enhancing dashboard responsiveness and faculty reporting accuracy notably.
- Elevated maintainability by enforcing Git feature branching, code reviews, and CI pipelines, standardizing unit tests and linters, enabling predictable releases and simplified onboarding across cross-functional Agile teams.

TripPilot AI – MCP-Orchestrated Travel Assistant
- Streamlined travel planning with LangChain/LangGraph multi-agent orchestration, integrating flights, hotels, and itineraries, delivering contextualized recommendations and enhancing user experience through automated workflows.
- Improved compliance and accuracy by building RAG pipelines with Pinecone vector database, hybrid retrieval, and re-ranking, delivering fact-checked, citation-backed travel insights aligned with policy rules.
- Enhanced platform reliability by engineering a custom MCP server with FastMCP, exposing domain tools, ensuring accurate agent-tool executions and preventing failures across the operational lifecycle.
- Strengthened governance and security by enforcing LLM guardrails through schema validation, JSON-mode enforcement, and RBAC, mitigating hallucinations, blocking unauthorized executions, and ensuring trustworthiness throughout the secure deployment and monitoring lifecycle.
- Achieved production-grade scalability by containerizing microservices with Docker, automating CI/CD pipelines via GitHub Actions, and enabling reliable, repeatable releases, accelerating rapid iteration cycles throughout the full development, deployment, and maintenance lifecycle.

ZenTrail – National Park Exploration Platform
- Accelerated trip planning 44% by integrating GPT-4 itinerary generation via Flask, pairing React and Tailwind interfaces to deliver accessible, cross-device experiences for hikers and campers.
- Delivered interactive Leaflet maps with real-time trail overlays, building Flask endpoints and MongoDB storage to personalize routes, availability awareness, and park advisories contextually.
- Improved reliability by containerizing services, adding health checks, and setting rate limits, reducing timeouts and ensuring consistent performance during seasonal peak planning periods.
- Enhanced product quality by instrumenting usage analytics, A/B testing route suggestions, and iterating UI with usability feedback, increasing session engagement and successful itinerary completions measurably.