KOTHA KEERTHANA

Senior Software Engineer | Full Stack & AI Engineering
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PROFESSIONAL SUMMARY

Full stack software engineer with 5 years at JPMorgan Chase building secure, scalable applications with Java, Spring Boot, React, TypeScript and AWS. Experienced in micro frontend and microservices architecture, cloud infrastructure and test automation, and used to owning features from design to production. Recent focus on AI-assisted engineering, including a code knowledge graph that cuts LLM token usage by 50–60% and a full application shipped in one month against a typical 6–7 month timeline.

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co. **Sep 2021 – Present**
Software Engineer *Hyderabad, India*

ProjectUnity **Jan 2026 – Present**

- Designed and built a micro frontend architecture with Single-SPA, TypeScript and Webpack Module Federation, setting up the routing, cross-app communication and shared state patterns used across distributed applications.
- Co-developed the Offers UI, the first front-end project in our domain, working out its setup and UI patterns from scratch.
- Owned the Save and Share feature for ProductFinder and delivered it end to end.
- Joined Dashboard design calls from day one and took ownership of the UI, built with MDS design system components.
- Implemented authentication and authorization flows and GraphQL API integration for secure data access.
- Containerized and deployed applications on AWS ECS, simplifying releases and environment management.
- Added CI quality gates that enforce minimum test coverage on every change and ESLint checks on every push, so defects surface before QA and review rework drops.
- Wrote Playwright end-to-end tests for critical user journeys, raising confidence in each release.

AI Engineering & Developer Productivity **2024 – Present**

- Designed and built a custom graph database that scans code repositories and summarizes AI chat sessions into linked nodes, giving coding assistants persistent project context at 50–60% lower token usage; now used daily by the team.
- Delivered a complete application in one month with Claude and GitHub Copilot, work that usually takes 6–7 months.
- Wrote reusable agent skills, including a skills.md that captures repo structure, coding standards and pre-checks, so Copilot and Claude produce code that fits the project architecture and needs less rework.
- Automated several repetitive engineering workflows with AI tooling, freeing up team time for feature work.

AdvisorPro **Sep 2021 – Present**

- Architected a Spring Boot service to take over customer PDF generation from React, with ADA-compliant output.
- Built Spring Boot microservices, REST APIs and UI workflows for secure, scalable enterprise applications.
- Deployed cloud-native API workflows on AWS (API Gateway, Lambda, Route 53, VPC, NLB), provisioned with Terraform.
- Introduced contract and component integration testing, improving service reliability and CI/CD delivery.
- Used Datadog monitoring to diagnose production issues quickly, improving stability and limiting business impact.

TECHNICAL SKILLS

AI & LLM: Claude, GitHub Copilot, Agent Skills, Prompt & Context Engineering, Knowledge Graphs, LLM Token Optimization
Languages: Java, TypeScript, JavaScript, C/C++, HTML, CSS
Frontend: React, Micro Frontends, Single-SPA, Webpack Module Federation, GraphQL, MDS Design System
Backend: Spring Boot, Node.js, Microservices, REST APIs
Cloud & DevOps: AWS (ECS, Lambda, API Gateway, Route 53, VPC, NLB), Terraform, Jenkins, CI/CD
Testing & Quality: JUnit, Playwright, Contract Testing, Integration Testing, ESLint, JMeter, BlazeMeter
Tools: GitHub, Datadog, Postman, Bruno, IntelliJ IDEA, VS Code

EDUCATION

B.Tech, Computer Science and Engineering | VNR Vignana Jyothi Institute of Engineering and Technology | CGPA: 8.9/10

CERTIFICATIONS

AWS Certified Developer – Associate | AWS Certified Cloud Practitioner

ACHIEVEMENTS

- Finalist, AWS DeepRacer Hyderabad, placing among the top participants out of 100+ teams.
- Competed in multiple internal hackathons at JPMorgan Chase.