# TANVIK REDDY KOTHA

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## SUMMARY

Full Stack Developer with 2.5+ years of experience building secure, scalable web and mobile applications. Proficient in Java, Spring Boot, Node.js, React.js, AWS, Azure and Docker/Kubernetes, with expertise in microservices, REST APIs, GraphQL, and CI/CD pipelines. Skilled in cross-platform solutions (React Native, Flutter) and database design (MySQL, MongoDB, PostgreSQL). Adept at implementing JWT/OAuth2 authentication and delivering maintainable, high-performing systems.

## PROFESSIONAL EXPERIENCE

**Full Stack Developer |** JP MorganChase, USA                                                    **August 2024 – Present**
- Led development of a fraud detection system with internal banking APIs, flagging **15K+ suspicious transactions/month** using rule-based & ML logic.
- Designed and deployed **20+ RESTful microservices** (Spring Boot, Node.js) handling **5M+ transactions/day** with less than **200ms latency** and **99.9% uptime**.
- Built responsive apps in **React.js (web)** & **React Native (mobile)**, delivering real-time alerts to 100K+ users.
- Containerized services on **AWS EKS (Docker, Kubernetes)**, enabling **3x auto scaling** and high availability during spikes.
- Integrated **AWS SQS & SNS**, cutting inter-service delays **30%** and ensuring real-time notifications.
- Automated **CI/CD pipelines** with Jenkins & GitHub Actions, reducing release cycles **40%** and improving production reliability.

**Full Stack Developer |** Sigma Info Tech, Hyderabad, India                                   **March 2022 – July 2023**
- Built an insurance claims platform used by **5K+ customers/agents**, eliminating manual bottlenecks across departments.
- Architected **15+ microservices** (Spring Boot, Node.js) to manage claims, policies, and documents, supporting **10K+ requests/day**.
- Developed a dynamic role-based **React.js UI**, improving **user task completion speed by 25%**.
- Integrated **AWS S3** for secure handling of **50K+ documents** with signed URLs & compliance-grade access controls.
- Implemented **JWT, OAuth2 & RBAC**, safeguarding multi-role access for **500+ users**.
- Deployed services on **AWS EC2 (Docker, Kubernetes)**, achieving **99.9% uptime** and seamless scaling at peak loads.
- Automated workflows with real-time claim tracking, **reducing processing time 40%** and boosting operational efficiency.

## TECHNICAL SKILLS

**Programming Languages:** Java | JavaScript (ES6+) | TypeScript | Python | SQL | Dart
**Frontend Technologies:** React.js | React Native | Angular | Flutter | HTML5 | CSS3 | Tailwind CSS | Bootstrap | Redux | Context API | React Router
**Backend & API Development:** Spring Boot | Node.js | Express.js | RESTful APIs | GraphQL | Microservices | MVC Architecture | Serverless Functions (AWS Lambda) | JSON | XML
**Databases:** MySQL | PostgreSQL | MongoDB (Atlas) | Firebase Realtime DB | SQL Server | H2
**Authentication & Security:** JWT | OAuth2 | Spring Security | Role-Based Access Control (RBAC) | HTTPS | SSL/TLS
**Cloud & DevOps:** AWS (EC2 | S3 | Lambda | API Gateway | SNS | SQS | EKS) | Azure (App Service, Functions, AKS) | Docker | Kubernetes | Jenkins | GitHub Actions | CI/CD Pipelines
**Tools & Development:** Git | IntelliJ IDEA | VS Code | Postman | Jira | Confluence | Swagger (OpenAPI)
**Testing & Methodologies:** JUnit | Unit Testing | API Testing | Test-Driven Development (TDD) | Debugging | Agile/Scrum | Git Branching

## PROJECTS

**MyFoodRx – AI Powered Health Chatbot App** (**DOI: 10.1109/SMARTCOMP65954.2025.00080**)
**Tech Stack:** *Flutter | Node.js | Express.js | MongoDB Atlas | Dialogflow CX | OAuth2 | REST APIs*
- Developed a cross-platform mobile health application using **Flutter**, **Node.js**, and **Dialogflow CX**, enabling an AI-powered chatbot to deliver personalized nutrition guidance for chronic conditions and **improving user accessibility**.
- Engineered a secure **RESTful API** with **OAuth2 authentication** and **MongoDB Atlas** integration, ensuring scalable data management and compliance, and **achieving publication at IEEE SMARTCOMP 2025** for innovation in digital health.

## EDUCATION

**Master of Science in Computer Science |** *University of South Florida, Tampa, FL*                **August 2023 – May 2025**

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Generative AI Professional - *Oracle*
- Oracle Certified Professional: Java SE 17 Developer – *Oracle*
- Oracle Cloud Infrastructure 2025 Developer Professional - *Oracle*
- AI Fundamentals – *IBM*
- Foundations of Databases for Developers – *Oracle*