SUSHMA MANTHENA

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SUMMARY

Full Stack Developer with **4+ years** of experience at Flipkart, specializing in designing and delivering scalable web and mobile applications using NextJS, React Native, and Java. Skilled in implementing AI-driven solutions, mentoring teams, leading cross-functional collaboration, and managing on-call responsibilities to ensure reliable product delivery.

SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, Dart, Swift, TypeScript
Frontend Technologies: ReactJS, ReactNative, Redux, HTML, CSS, Next.js, Android, iOS, Flutter, SwiftUI
Backend Technologies: Node.js, Express.js, Java, WebSocket, HTTP, JSON, Langchain
Build Automation Tools: Jenkins, Maven, Gradle, Webpack, Vite, NPM, Flutter CLI
Databases: MySQL, MongoDB, Firebase, Redis
Developer Tools: Git, Docker, Kubernetes, Jenkins, Github, Postman, Figma, FVM, NVM
Software Methodologies: Agile, Waterfall, TDD, Jira
AI Technologies: RAG, Vector DB, LLMs, Fine-tuning, Agent AI, Prompt Engineering, Context Engineering
Other Technologies: IoT, JUnit, Jest, Dropwizard, Spring Boot, Machine Learning, Material UI

WORK EXPERIENCE

Flipkart *(An Indian e-commerce company acquired by **Walmart**)* *Jun 2020 - Aug 2024*
Software Development Engineer *Bangalore, India*
Video Commerce *May 2024 - Aug 2024*

Built Video Commerce UI in **React Native** with live streaming and reward-based product discounts, boosting user engagement and retention by integrating with Rewards API.

Chat Platform *Jun 2020 - May 2024*

Idiom and Dialog Manager

· Architected and launched **Idiom**, a bot-building platform using **ReactJS** with drag-and-drop interface, version control, and bot simulation, improving designer productivity by **6x**.
· Integrated Decision Assistant bot with **15+ Flipkart APIs** to automate customer guidance and seamless agent escalation.
· Migrated **10+ microservices** from VMs to cloud, enforcing quality gates, ensuring **85% test coverage**, and handling on-call operations.

Harvey

· Built analytics tool **(ReactJS + Java)** used by business, product, and dev teams to analyze chats.
· Optimized CI/CD pipelines, reducing deployment time by **35%** and improving release frequency.

Flipkart App

· Enhanced chat messaging interface (**React Native + Android**) with HTTP/WebSocket connections, improving message delivery reliability by **70%**.
· Implemented interactive UI components (quick replies, carousels) that increased customer support engagement by **20%**.

EDUCATION

University of Washington, Bothell, *WA, USA* *Expected Dec 2025*
Master's Degree in Computer Science *GPA: 3.84/4.0*
Shri Vishnu Engineering College For Women, *India* *Jun 2016 - Jul 2020*
Bachelor of Technology - Information Technology *GPA: 8.95/10*

ADDITIONAL PROJECTS

iHyre *UWB, WA, US*

- Building an AI-powered interview automation platform using **TypeScript, Node.js, and PostgreSQL** to automate resume screening, interview scheduling, and analytics, targeting **5x** improvement in hiring throughput.
- Developing adaptive interview agents leveraging **LLMs and vector embeddings** to conduct context-aware interviews and generate structured feedback, designed to reduce interviewer workload by 70%.
- Architecting a scalable **multi-agent system** with Redis caching, Dockerized deployments, and Oracle Vault integration, ensuring secure, low-latency, production-grade reliability.

Luna mHealth App *UWB, WA, US*

- Building a modular validation framework in **Flutter MVVM** to detect structured issues in PPTX/ODP files before .luna creation, with dynamic UI, shared state, and following **TDD-driven tests**.