SUSHMA MANTHENA

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SUMMARY

Aspiring Software Engineer with experience in designing and deploying scalable, user-focused web and mobile applications using ReactJS and React Native. Proficient in back-end technologies like Java, with proven success in handling on-call responsibilities, solving complex problems, and mentoring.

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**

SKILLS

Programming Languages:	C, C++, Java, Python, JavaScript, Dart, Swift
Web and Mobile Technologies:	ReactJS, ReactNative, JavaScript, TypeScript, Redux, HTML, CSS, Node.js, Next.js, Express.js, Android, iOS, JSON, HTTP, WebSocket, Flutter, Angular
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
Operating Systems:	MacOS, Windows and Linux
Software Methodologies:	Agile, Waterfall, TDD, Jira
AI and LLM Technologies:	TensorFlow, PyTorch, Hugging Face, RAG, Vector DB, LLM Fine-tuning
Other technologies and frameworks:	IoT, JUnit, Jest, Dropwizard, Spring Boot, Machine Learning, Material UI

PROFESSIONAL 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
  - Built Idiom, a conversational design tool **(ReactJS, Java)** improving performance **6x**; led bot simulation framework for real-world validation and cross-environment testing; implemented version control for seamless tracking/rollback. Developed Decision Assistant bot (SpringBoot, DropWizard) integrating Flipkart APIs with agent handoff. Migrated 10+ microservices from VMs to cloud, ensured 85% test coverage, enforced quality gates, and managed on-call operations.
- Harvey
  - Developed a tool for business, product, and development teams to analyze chats, ensuring seamless integration of front-end and back-end components. Streamlined end-to-end service deployments by optimizing CI/CD pipelines, resulting in a **35% reduction** in deployment time and handled on-call responsibilities.
- Flipkart App
  - Collaborated cross-functionally with the Product team to develop and enhance the **front-end of a chat messaging interface** on Flipkart, using HTTP and Web Socket connections and implemented **interactive UI components** to boost user engagement, support informed product decisions, and deliver seamless customer support experiences.

ADDITIONAL PROJECTS

Luna mHealth App *UWB, WA, US*
- Building a modular validation framework for the Luna Authoring System to surface structured issues before .luna module creation from uploaded PPTX / ODP files.
- Integrating validation into a Flutter MVVM architecture with dynamic UI and shared state.
- Practicing test-driven development (TDD) with mock-driven unit tests to ensure validator reliability and maintainability.

MockItUp
- Developing a **web app** leveraging **LLMs and AI** to simulate mock interviews, providing real-time feedback and personalized practice recommendations to improve user performance.