

Gautam Somappa

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Work Experience

Walmart Labs, Washington DC

June 2024 – present

Senior Software Engineer

- Led checkout lane optimization across multiple store formats, reducing customer wait time and improving associate efficiency by 15%.
- Architected and implemented applications that seamlessly integrated with Walmart+ and Spark Driver, delivering frictionless checkout and membership features used at scale across Walmart stores
- Mentored junior engineers on architecture, testing, and best practices for large-scale distributed systems.

Technical Stack: Typescript, Node, React, React Native, Redux, GraphQL

Built Technologies, Remote

June 2023 – June 2024

Senior Software Engineer

- Modernized the Draw Management system for Commercial Real Estate, reducing draw turnaround time by 20% and enhancing user workflows.
- Drove architectural decisions for backend integrations using NestJS and GraphQL.
- Designed scalable schema models for DynamoDB to support growing customer portfolios.
- Contributed to CI/CD process optimization using Kubernetes and GitOps tooling.

Technical Stack: Typescript, React, NestJS, GraphQL, DynamoDB, Kubernetes

Twilio, Washington DC

May 2022 – April 2023

Software Engineer (L3)

- Spearheaded the UI development for Twilio's Serverless Functions & Assets, leading to a 25% increase in user engagement and a 40% growth in Serverless function deployments within the first six months.
- Enhanced Twilio's CodeExchange platform by implementing user-friendly templates that expedited development processes, resulting in a 35% reduction in average project start-up times and a 50% increase in template usage.
- Orchestrated the creation and implementation of comprehensive end-to-end (E2E) testing procedures, resulting in a 30% enhancement in application stability and reliability. Developed and integrated sophisticated Datadog metrics and dashboard visualizations, which were instrumental in reducing system downtime incidents by 20%.

Technical Stack: Typescript, React, Redux, React Testing Library, Cypress, Docker

Walmart Labs, Washington DC

June 2018 – April 2022

Software Engineer III

- Pioneered a dual-platform solution with React Native for in-store and React for online users, automating mobile phone purchase and activation. This achieved a 30% reduction in activation time by automating integration with network carriers, which streamlined the purchase-to-activation process for customers.
- Architected a robust data graph management hub leveraging Apollo GraphQL Federation, facilitating a cohesive service registry, dynamic service discovery, and efficient schema stitching. This initiative optimized data aggregation and accessibility for developers, consolidating multiple data endpoints into a singular, coherent source.

Technical Stack: Typescript, Node, React, React Native, Redux, GraphQL, PostgreSQL

Projects

WeWatch

- Built and launched a cross-platform mobile app that helps friends and families quickly agree on movies to watch together.
 - Designed and implemented the end-to-end architecture (frontend and backend) as a solo developer, from concept to production.
 - Published to both App Store and Google Play, handling deployment, CI/CD, and release management.
- Technical Stack: Typescript, NestJS, React Native, Redux, PostgreSQL*

Education

University of Virginia, Charlottesville	<i>May 2018</i>
Master of Science, Computer Science (<i>GPA:3.80/4.00</i>)	
Amrita University, India	<i>May 2015</i>
Bachelor of Technology, Computer Science	

Skills

- **Languages:** TypeScript, JavaScript, Python.
- **Frameworks & Libraries:** React, Node, NestJS, Redux, React Native, Next.js, Express, Apollo GraphQL.
- **Databases:** PostgreSQL, MySQL, MongoDB.
- **Tools:** AWS, Vite, Webpack, Docker, Kubernetes, Prometheus, Jenkins, Datadog, Cypress, Github Actions