

# Manu Bhargav Srirangarajan

Seattle, WA

Email [manubhargav27@gmail.com](mailto:manubhargav27@gmail.com)  
LinkedIn [linkedin.com/in/manubhargav](https://www.linkedin.com/in/manubhargav)

GitHub [github.com/manubhargav](https://github.com/manubhargav)

Mobile [\(619\) 452-8256](tel:(619)452-8256)  
Portfolio [manubhargav.github.io](https://manubhargav.github.io)

## WORK EXPERIENCE

Amazon.com Inc., Seattle, WA

Nov 2025 - Present

**Front-end Engineer** - [React, TypeScript, Cypress, Vite, TanStack Query, AWS CDK, Lambda, S3, CloudFront, Python, Flask, CQRS]

- Led frontend development of a critical security incident response platform serving 5,000+ users, building 15+ complex features including real-time incident tracking, reducing case investigation time by 40% through improved UI/UX workflows.
- Engineered full-stack cloud infrastructure (AWS Lambda, S3, DynamoDB, OpenSearch) and Python Flask APIs, enabling real-time incident data processing for 100K+ daily events with sub-second response times and 99.9% availability SLA.
- Optimized application performance through multi-layered caching (Redis/Valkey, TanStack Query, service worker strategies) and advanced bundling (Vite code splitting, tree-shaking, CSS chunking), combined with responsive image optimization; achieved 40% bundle reduction, 60% Lighthouse improvement, and sub-500ms Time to Interactive.

Splunk Inc., San Jose, CA

May 2022 - Oct 2025

**Software Engineer** - [React, TypeScript, Cypress, Jest, React Testing Library, Docusaurus, Styled Components, Docker, ESLint]

- Architected shared component library with Storybook documentation and Module Federation, enabling code reuse across 4 product teams, reducing development time by 30% and ensuring 100% design consistency through automated visual regression testing with Cypress and Jest with 90% code coverage, reducing production defects by 60%, significantly decreasing customer support burden, and enabling safe refactoring of 15,000+ lines of legacy redundant code.
- Developed frontend components for security dashboard optimizing real-time data visualization with WebSocket subscriptions, client-side memoization, and intelligent cache invalidation to achieve smooth UI responsiveness, enabling security analysts to investigate 500+ daily incidents with improved efficiency.
- Led design-to-production collaboration for 8 feature releases, working with User Experience Designers, Product Managers, Quality Assurance Engineers and distributed teams to deliver on schedule with 98% requirement acceptance rate.

Truist Financial Corporation (via Infosys Limited), Bangalore, India

February 2017 – June 2021

**Senior Software Engineer** - [Angular, TypeScript, Jasmine, Jest, Bootstrap, Node.js, Webpack, Java, Spring Boot, RxJs, NPM]

- Architected and delivered an enterprise financial platform handling 10M+ daily transactions using Angular/Java Spring Boot microservices, achieving 99.95% uptime SLA and supporting 500K+ concurrent users.
- Mentored 7 junior engineers over 4 years, establishing Angular/TypeScript code review standards that improved quality scores by 35% and enabled 5 career advancements, including 1 promotion to senior engineer.
- Reduced account list rendering time by 75% (widget-based architecture) and achieved a 71% improvement in Lighthouse mobile score (52 to 89), directly increasing user engagement by 28% and reducing bounce rate by 18%.

## PROJECTS

Inventory Management System [React, Node.js, Express.js, GraphQL, MongoDB, Webpack]

February 2022 - May 2022

- Architected a full-stack inventory system using React Context API and Node.js/Express, achieving fast query response times and 40% reduced client-side bundle size through Webpack tree-shaking, and dynamic module imports.
- Implemented GraphQL API layer with Apollo Server, reducing data over-fetching by 60% compared to REST/SOAP approach.
- Optimized MongoDB schema design with Mongoose, implementing efficient indexing and aggregation pipelines, reducing average query time by 65% and database memory footprint by 40% while maintaining horizontal scalability.

## ADDITIONAL TECHNICAL SKILLS

**Database & Project Management:** DynamoDB, OpenSearch, MySQL, Oracle, Unix, Shell Scripting, Microsoft Azure, Confluence, Jira

**Cloud & Other Technologies:** Amazon APIGateway, AWS CloudFormation, SQS, CloudFront, Figma, Zustand, HTML, CSS, JavaScript.

## EDUCATION

Master of Science in Computer Science

San Diego State University, California

August 2021 - May 2023

Bachelor of Engineering in Information Science Engineering

Visvesvaraya Technological University, India

September 2012 - June 2016