

## Technical Skills

**Languages:** JavaScript, TypeScript, Java, Python, SQL

**Backend & APIs:** Spring Boot, Node.js, Express.js, RESTful APIs

**Frontend:** React.js, Next.js, Redux, React Hooks, HTML5, CSS3

**Databases:** PostgreSQL, MongoDB, Redis

**Cloud & DevOps:** AWS (EC2, S3, Lambda, EKS), Docker, Kubernetes, CI/CD, GitHub Actions

**Testing & Quality:** Jest, JUnit, Cypress

**Tools & Practices:** Git, Agile/Scrum, OpenTelemetry, Grafana, Kafka, OAuth2

## Experience

### Software Engineer

Comcast

Jul 2025 – Present

Englewood Cliffs, NJ

- Developed customer self-service portal features as part of 5-person platform team using **React**, **Spring Boot**, and **PostgreSQL** enabling **12K+ users** to manage preferences, reducing support tickets by **28%** and saving **\$180K annually**.
- Implemented **JWT authentication** with **Spring Security** and **Redis** integrating React frontend with **OAuth2**, securing **15+ API endpoints** across 3 user role types.
- Built reusable component library with **15+ React components** consuming **REST APIs** using **TypeScript**, collaborating with senior engineers to establish design standards across **6 teams** and reducing development time by **40%**.
- Optimized React bundle from **2.1MB to 850KB** using code-splitting and lazy loading, improving Time to Interactive by **45%** and reducing backend load by **30%**.
- Developed data processing components for analytics microservice using **Spring Boot** and **Kafka**, implementing pipeline storing **500K+ daily records** in **PostgreSQL** as part of system processing **1.2M+ events/day** with **99.8% reliability**.
- Implemented **CI/CD pipeline** using **GitHub Actions** deploying to **AWS EKS**, with **OpenTelemetry/Grafana** dashboards reducing deployment time by **60%** and cutting production incidents by **35%**.
- Achieved **85% test coverage** writing **200+ unit tests** (Jest/JUnit) and **20+ integration tests** (Cypress), preventing **18 critical bugs** from reaching production.

### Software Engineer

Infosys

Sep 2024 – May 2025

Atlanta, GA

- Developed customer onboarding system with **React**, **Spring Boot**, and **MongoDB** handling **2.5K+ monthly registrations** with **99.7% success rate** and real-time progress tracking.
- Built **REST API** with **12 endpoints** using **Spring Boot** implementing validation and **PostgreSQL** transactions, reducing data inconsistency errors by **50%** for frontend consumption.
- Engineered responsive **React components** using **CSS3 Flexbox/Grid** across all viewports (375px-2560px) while integrating backend APIs, increasing mobile conversion rate by **22%**.
- Implemented **Redux** state management with normalized structures and memoized selectors, reducing re-renders by **65%** and improving responsiveness for 20+ input field forms.
- Containerized application with **Docker** and **Kubernetes** following DevOps best practices, creating **Helm charts** enabling consistent deployments across dev, staging, and prod environments.
- Wrote **120+ frontend tests** (Jest/React Testing Library) achieving **78% coverage** and **40+ backend tests** (JUnit), catching **25+ bugs** before QA testing phase.

## Projects

### AI-Powered Code Review Platform [Code](#)

React, Node.js, PostgreSQL, Redis, LLM APIs, GitHub API

- Built automated GitHub PR review tool and evaluated on **650 PRs** across **25 repositories**, showing potential to reduce manual review time by **35%** through webhook-driven architecture with **Redis queues** and **LLM-based validation pipeline**.

### Gesture-Controlled Virtual Mouse System | [Paper](#) | [Code](#)

Springer ICIoT 2023 Conference Proceedings

- Published research paper** on computer vision-based hand gesture recognition achieving **95%+ accuracy** with **<50ms latency**, enabling touchless mouse control through real-time hand landmark detection and gesture classification.

## Education

### University of Georgia

Master of Science in Computer Science, **GPA: 3.6 / 4.0**

Aug 2023 – May 2025

Athens, GA

Coursework: Distributed Systems, Cloud Computing, Software Engineering, Database Systems

### SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering, **GPA: 8.6 / 10.0**

Aug 2019 – May 2023

Chennai, India