# Sruthi Yeruva

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## EDUCATION

**Northeastern University,** The Roux Institute, Portland, ME
*Master of Science, Computer Science*

Related Courses: Machine Learning, Mobile Application Development, Information System Forensics, Computer Networks, Program Design Paradigm (Object Oriented Design), Algorithms, Database Management System, Human-Computer Interaction

## TECHNICAL SKILLS

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|---|---|
| **Languages** | Java, Python, C Programming, C#, JavaScript, SQL, Swift, Scala, Kotlin, R, Go |
| **OS and Databases** | Windows, MacOS, Linux, Unix, MySQL |
| **DevOps, Cloud, Infrastructure** | Docker, Kubernetes, GitHub Actions, Prometheus, Grafana, Ansible, Infrastructure-as-Code, Monitoring, DevOps, CI/CD, AWS, GCP, Firebase, RabbitMQ |
| **Web Technologies** | HTML, CSS, Angular, React, Node.js, PHP, MongoDB, Sass, Bootstrap |

## WORK EXPERIENCE

**Optum Global Solutions**
*Tools:* C#, SQL, DevOps, .Net                                            April 2022 - November 2022
*TDP Software Engineer*

- Reduced application failure rates by 70% through failure analysis and **C#** code optimization.
- Enhanced application usability and performance by revamping interfaces and integrating **DevOps** pipelines.
- Improved database query efficiency using optimized **SQL** queries, enhancing Critical Path Analysis outcomes.
- Led unit and integration **testing** efforts, reducing post-release defects by 30%.

## PROJECTS

**AI Solutions Dashboard & Component Library**
*Tools:* React, TypeScript, Sass, Firebase, Node.js, Git, Jest

- Developed a **TypeScript-based React component library** to visualize AI/LLM insights, featuring reusable components and consistent Sass theming.
- Architected a dashboard interface with ***Firebase authentication***, protected routing, and global state management using ***React Context API***, supporting live user session behavior.
- Ensured WCAG-compliant accessibility and responsive UX across devices using mobile-first design, ARIA attributes, and semantic ***HTML***.
- Wrote unit tests with ***Jest*** and implemented Git-based code review processes aligned with *Agile* sprints to maintain delivery quality and team collaboration.

**Smart City Traffic Management System**
*Tools:* Java, Spring Boot, REST API, MySQL, Docker

- Developed a robust management platform using ***Java and Spring Boot*** to engineer a scalable backend for real-time traffic data ingestion, improving route processing speeds by 35%.
- Built ***RESTful APIs*** to support dynamic rerouting based on congestion levels, enabling optimized traffic flow for 10,000+ daily vehicles in a simulated innovative city environment.
- Designed and optimized ***MySQL-backed*** relational schema to handle 100K+ records efficiently, with 20% faster query response times after tuning indices.
- The system was deployed using ***Docker*** containers for platform independence and maintainability across dev and test environments.

**Cloud-based Expense Tracker Platform**
*Tools:* MERN Stack (MongoDB, Express, React, Node.js), AWS EC2, Postman, JWT, Route 53

- Built a secure full-stack expense tracking app with ***JWT-based user authentication***, personalized budgeting, and dashboard analytics, leading to 25% better financial visibility for users.
- Used ***MongoDB's*** flexible schema to manage over 10,000 transactions, enabling real-time expense tracking and dynamic filtering.
- Deployed the application on ***AWS EC2*** and configured *Route 53 for DNS*, achieving 99.9% uptime across test deployments.
- Automated ***API validation*** and regression testing with ***Postman***, reducing manual QA time by 40%.