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, Computer Networks,Program Design Paradigm (Object Oriented Design), Algorithms, Database Management System, Human-Computer Interaction, Data Structures

TECHNICAL SKILLS

Languages	Java, Python, C, C#, C++ JavaScript, SQL, Swift, Scala, Kotlin, R, Go, NoSQL
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, Jira
Web Technologies	HTML, CSS, Angular, React, Node.js, PHP, MongoDB, Sass, Bootstrap, Vue
Methodologies & Practices	SDLC, Agile, Code Review, Data Structures, Algorithms

WORK EXPERIENCE

Optum Global Solutions
Tools: C#, MySQL, .Net, GitHub Actions
TDP Software Engineer

- Lowered 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 **MySQL** queries, enhancing Critical Path Analysis outcomes.
- Integrated **CI/CD** checks and integration **testing** efforts, reducing post-release defects by 30%.

PROJECTS

Furora – Your Pet World, Beautifully Connected | **Github** | **Website**
 Tools: Frontend: React, TypeScript, Vite, Tailwind CSS, Framer Motion, Leaflet.js· *Backend:* Node.js, Express.js, REST APIs, Supabase (Postgres + Auth)· *Infra:* Netlify, Render, GitHub

- Built Furora, a full-stack pet app, delivering interactive Explore (map-based search), Adoption (quiz-driven matching), and Health Care (resources) pages.
- Built a **REST API with Node.js + Express**, integrated with **Supabase** for authentication, persistent saved pets, and match history.
- Connected to the **API** for real-time adoption listings with custom filters, favorites, and match scoring to personalize discovery.
- Deployed via **Netlify and Render** with CORS-enabled endpoints, mobile-first design, and accessibility compliance (ARIA, semantic HTML).

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

- 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* to maintain delivery quality and team collaboration.

Smart City Traffic Management System | **Github** | **Website**
 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.
- Architected the backend as **microservices** (ingestion, routing, alerts) with REST contracts; containerized with **Docker** and added health checks/readiness probes.
- The system was deployed using ***Docker*** containers for platform independence and maintainability across dev and test environments.