Sudharsan Ragavendhiran Anuradha

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EDUCATION

Master of Science in Computer Software Engineering, Northeastern University Boston,MA   Dec 2024
Relevant Coursework: Data Structures & Algorithms, Web Development, Advance BigData Indexing

EXPERIENCE

Software Engineer Co-op   Jan 2024 - Dec 2024
Philips North America LLC   *Cambridge, MA*

- Migrated legacy codebase to **React**, integrating dynamic UI features like mega menu and enhancing usability
- Developed 10+ **React** components for the Event Notification panel, enhancing UI responsiveness and usability
- Refactored **React** code using Higher-Order Components (HOCs), enhancing code reusability and readability by 15%
- Built a **generative AI** chatbot using **Python**, improving customer support efficiency by providing tailored configuration guidance for PIC iX Patient Monitoring.

Software Engineer   Oct 2018 - Jun 2022
Element5 Inc   *Chennai, INDIA*

- Engineered a state-of-the-art internal scratchpad tool using **Node.js, Express.js, MongoDB, Redis and Elasticsearch**; streamlined data storage for automation processes across multiple applications, enhancing operational efficiency by 20% and reducing retrieval time by 60%
- Optimized workflow automation deployment portal performance with **lazy loading and Webpack**, reducing page load times by 25%
- Achieved 85% test coverage by writing robust unit tests with **Mocha and Jest**, reducing bugs by 40%
- Built **REST APIs** with **Spring Boot** for managing **Single Sign On** using **OpenID Connect**, improving authentication reliability
- Worked on the front-end development of a web-based workflow automation system using **React, Redux, React Router, Axios, and Material-UI** for consistent design, improving user experience, and task management

PROJECTS

Job Portal Web application: Created a responsive, multi-tenancy web-based job portal application using **React, NodeJS, JavaScript, CSS, HTML, and MongoDB**, which has features such as job search, job post, apply for jobs. Integrated **Chart.js** for dashboard

Real-Time Collaborative Tool: Built a web application which lets users create Collaborative notepads enabling simultaneous editing by unlimited users with **WebSockets, NodeJS, React, and MongoDB**. and containerized using **Docker** for efficient deployment.

Insurance Plan Web application: Developed a web application with **Java Spring Boot** utilizing **Redis** for caching, **Elasticsearch** for object retrieval, **RabbitMQ** for queuing, **GraphQL** for flexible and efficient data querying, and **OAuth** for security; containerized the application with **Docker**, and deployed it efficiently.

SKILLS

Programming Languages:	JavaScript, TypeScript, HTML, CSS, Java, Python
Web Development	Node.js, React.js, Next.js, Redux, Tailwind, Material-UI, Spring Boot
Databases & Messaging	MySQL, MongoDB, Postgres, Redis, RabbitMQ, GraphQL, Hibernate
Tools	Webpack, AWS, Azure Devops, Docker, Git, Jenkins, Kubernetes, Kibana, Jira