

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

Bachelor of Engineering in Computer Science, Anna University Chennai, INDIA 2018
Relevant Coursework: Data Science, Artificial Intelligence, Theory of Computation

SKILLS

Programming Languages:	Python, Java, C#, JavaScript
Web Development	React.js, Next.js, Node.js, Express.js, Spring Boot, GraphQL
Databases & Messaging	MySQL, MongoDB, PostgreSQL, Redis, RabbitMQ, Elasticsearch
Testing Tools & Frameworks	Selenium, JUnit, Cucumber, TestNG, Mocha
Cloud & Tools	AWS(S3, EC2), Azure Devops, Docker, Git, Jenkins, Kubernetes, Kibana, Jira

EXPERIENCE

Software Engineer in Test Intern Jan 2024 - Dec 2024
Philips North America LLC *Cambridge, MA*

- Developed and maintained test automation frameworks using **Selenium** and **JUnit** for regression testing.
- Designed and implemented an end-to-end automation infrastructure in **Azure DevOps**, integrating with Microsoft Teams to automatically assign test cases to resources and trigger review processes upon test completion, significantly improving workflow efficiency and accountability by 40
- Spearheaded the development of an in-house configuration tool for performance testing of a patient monitoring application using **.NET**, which optimized testing processes and reduced configuration setup time by 50%
- Developed and maintained an automated **Cucumber** test framework using **Java**, enabling seamless integration of BDD principles and enhancing test coverage by **30%**, while streamlining regression testing processes across multiple application modules.

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 backend services using **Node.js** and **JavaScript** for an RPA automation low-code platform, resulting in a 20% reduction in response times and enhanced system performance
- 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

Insurance Plan Web application: Developed a web application with **Java Spring Boot MVC** 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.

GenAI Job Search platform: Built a Generative AI-powered job finder using **Python**, **Selenium**, **BeautifulSoup**, and **OpenAI GPT-4**, which searches job platforms using web crawlers, generates optimal resumes tailored to each job description, and autofills applications via a **JavaScript-based Chrome extension**.