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:	C, C++, 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
AI & Data Science	TensorFlow, PyTorch, Scikit-learn, OpenAI API, LangChain
Cloud & Tools	AWS(S3, EC2), Azure Devops, Docker, Git, Jenkins, Kubernetes, Kibana, Jira
Test Automation	TestNG Cucumber, Mocha

EXPERIENCE

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

- Contributed to decomposing a monolithic **.NET** application into a **microservice** architecture by working on a key microservice, enhancing system scalability, maintainability, and performance
- 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%

Software Engineer   Jun 2020 - Jun 2022
Element5 Inc   *Chennai, INDIA*

- Engineered a state-of-the-art internal scratchpad tool using **Node.js, Express.js, MongoDB, 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 Applicant Screening: Built a Generative AI-powered ATS application using **Python, streamlit, and OpenAI GPT-4**, capable of summarizing and scoring resumes based on predefined job descriptions and evaluation criteria.

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