

# SUDHARSAN RAGAVENDHIRAN ANURADHA

+1(737) 296-6189 ♦ Boston, MA

[ragavendhirananura.s@northeastern.edu](mailto:ragavendhirananura.s@northeastern.edu) ♦ [LinkedIn](#) ♦ [sudharsan-ragavendhiran.github.io/](https://github.com/sudharsan-ragavendhiran)

## 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

<b>Programming Languages:</b>	C, C++, Python, Java, C, JavaScript
<b>Web Development</b>	React.js, Next.js, Node.js, Express.js, Spring Boot, GraphQL
<b>Databases &amp; Messaging</b>	MySQL, MongoDB, PostgreSQL, Redis, RabbitMQ, Elasticsearch
<b>AI &amp; Data Science</b>	TensorFlow, PyTorch, Scikit-learn, OpenAI API, LangChain
<b>Cloud &amp; Tools</b>	AWS(S3, EC2), Azure Devops, Docker, Git, Jenkins, Kubernetes, Kibana

## 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 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.

**BookStore Web Application:** Developed a Web 2.0 online bookstore using **Spring Boot** with **MVC** architecture, ensuring scalable development through session management, DAO classes, and efficient data handling.