

# Sudharsan Ragavendhiran Anuradha

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## EXPERIENCE

Software Engineer Co-op, Philips North America LLC, Cambridge, United States

Jan 2024 - Dec 2024

- 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, Element 5, Inc.

Jun 2020 - Jun 2022

- Optimized workflow automation deployment portal performance with **lazy loading and Webpack**, reducing page load times by 25%
- Worked on the front-end development of a web-based workflow automation system using **React, Redux, React Router, Axios, and Material-UI**
- 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
- 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

Software Engineer, Ideas2IT Technologies LLC

Oct 2018 - Jun 2020

- Developed and maintained scalable **RESTful APIs** using **Java and Spring Boot**, enabling seamless integration and high performance for enterprise-level applications
- Built test-driven development pipelines using **JUnit** to ensure high code quality and maintainability
- Configured and deployed **Java** applications on **AWS Elastic Beanstalk** and utilized **AWS** services like **S3, DynamoDB, and Lambda** for enhanced functionality and scalability

## EDUCATION

Northeastern University, Boston, United States - Master of Science, Computer Software Engineering

Dec 2024

Relevant Coursework: Data Structures & Algorithms, Web Development, Advance BigData Indexing, Design Patterns

## PROJECTS

### Real-Time Collaborative Tool

- Built a collaborative notepad web application allowing unlimited users to simultaneously edit documents, using **WebSockets** for real-time updates and a **React + Node.js stack**
- Containerized the application with **Docker**, ensuring efficient and scalable deployment

### Insurance Plan Web application

- Built a scalable web application using **Java Spring Boot**, incorporating **Redis** for caching, **Elasticsearch** for efficient object retrieval, and **RabbitMQ** for message queuing
- Enhanced data accessibility by integrating **GraphQL** for flexible and efficient querying and implemented **OAuth** to ensure robust security
- Streamlined deployment by containerizing the application with **Docker**, enabling portability and scalability

### Serverless Portfolio Website with AWS

- Designed and implemented a serverless portfolio application using AWS services, including **S3, Lambda, API Gateway, DynamoDB**, and **CloudFront**, to deliver a scalable and highly available web solution
- Automated infrastructure provisioning and updates with **Terraform**, ensuring efficient deployment and version control for backend services
- Enhanced user experience with a secure and fast content delivery setup using **AWS Certificate Manager** for SSL, **CloudFront** for caching, and **Route 53** for domain management

### GenAi Resume Generator

- Developed an AI-powered application utilizing **Python, Streamlit, and OpenAI GPT-4** to dynamically tailor resumes based on specific job descriptions, ensuring increased relevance to target roles

## SKILLS

Programming	: JavaScript, TypeScript, Java, Python, C#
Web Development	: HTML, CSS, Node.js, React.js, Next.js, Redux, Tailwind, Material-UI, AngularJS
Backend Technologies	: Spring Boot, MySQL, MongoDB, Postgres, Hibernate, Redis, RabbitMQ, GraphQL, DynamoDB, Kafka
Cloud	: AWS, Docker, EC2, ECS, AWS Lambda, Amazon S3, API Gateway, Route 53, Azure DevOps
Tools	: Git, Jira, Swagger, Kibana, Github Actions, Shell, Postman, Selenium, Junit, Cucumber