

Sudharsan Ragavendhiran Anuradha

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EDUCATION

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

SKILLS

Programming Languages:	Python, Java, Go, JavaScript
Web Development	React.js, Node.js, Spring Boot
Databases & Messaging	MySQL, MongoDB, PostgreSQL, Redis, RabbitMQ, Elasticsearch
Testing Tools & Frameworks	Selenium, Playwright, JUnit, Cucumber, TestNG, Mocha, Jest, JMeter, RESTAssured
Cloud & Tools	AWS, Docker, Git, Jenkins, Kubernetes, Kibana, Jira

EXPERIENCE

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

- Designed and implemented **automated UI testing frameworks** using **Selenium**, **TestNG**, and **Mocha**, covering **critical workflows with 90% test coverage**.
- Conducted **load and performance testing** using **JMeter**.
- Developed and maintained an automated **Cucumber** test framework using **Java**, enabling seamless integration of BDD principles and enhancing test coverage by **30%**
- Collaborated with cross-functional teams to define **acceptance criteria**, create functional test suites, and ensure alignment with release testing requirements.
- Gained exposure to service testing using **RESTAssured** and **Wiremock** for RESTful APIs.

Software Engineer Oct 2018 - Jun 2022
Element5 Inc

- Created and executed service-level tests for **RESTful APIs**, leveraging tools such as **Karate** and **RESTAssured** to ensure robust service integrations
- Designed and implemented automated testing frameworks using **Selenium** and **TestNG**, ensuring comprehensive functional and regression test coverage across key applications.
- Achieved 85% test coverage by writing robust unit tests with **Mocha** and **Jest**, reducing bugs by 40
- Built and maintained an internal scratchpad tool using **Java**, **MongoDB**, **Redis**, and **Elasticsearch**, significantly improving data storage and retrieval efficiency by **60%**.
- Built **REST APIs** with **Spring Boot** for managing Single Sign On using **OpenID Connect**, improving authentication reliability

PROJECTS

GenAI Job Search platform: Developed a Generative AI-powered job finder using **Python**, **Selenium**, **BeautifulSoup**, and **OpenAI GPT-4**, with a **JavaScript**-based Chrome extension for tailored resumes and automated job applications.

Serverless Portfolio Website with AWS: Designed and deployed a serverless application using **AWS (S3, Lambda, API Gateway, DynamoDB, CloudFront)** with **Terraform** automation.

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 data querying, and **OAuth** for security; containerized the application with **Docker**