

Aishwarya Venkatesan

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EDUCATION

Northeastern University , Boston, MA <i>Master of Science - Information Systems</i> <i>Courses: Web Design & User Experience Engineering, Programming Structures and Algorithms, Network Structures and Cloud Computing</i>	Boston, MA <i>Expected May 2024</i>
Anna University , <i>Bachelor of Technology - Information Technology</i>	Chennai, India <i>July 2016 - April 2020</i>

SKILLS SUMMARY

• Languages	Java, Javascript, TypeScript, C, SQL
• Frameworks	Spring Boot, Sequelize, Mockito, JUnit, Bootstrap, jQuery
• Web Technology	React.js, HTML5, CSS3, SCSS, Express.js, Node.js, Winston logger
• Other Tools	Bitbucket, Git, JSON, REST, Maven, Jenkins, OpenShift, Docker, SonarQube, Pulumi, Swagger, Elasticsearch, Kibana, Packer, ServiceNow, MongoDB, Jira, Postman, MySQL, IntelliJ
• Cloud Platform	EC2, VPC, RDS, Route53, CloudWatch, AWS Lambda, Amazon SES, GCP

EXPERIENCE

Barclays - US Consumer Banking <i>Java Developer (Full-time)</i>	Chennai, India <i>August 2020 – August 2022</i>
<ul style="list-style-type: none">Created customer-facing REST APIs with Spring Boot and OAuth for consumer cards, achieving a 70% increase in test coverage using Junit and Mockito in alignment with partner requirements for reward points redemptionImplemented microservices, set up CI/CD pipelines in Jenkins, managed deployments on OpenShift, and utilized AppDynamics for performance monitoring, leading to streamlined operations and heightened application reliabilityUtilized the Veracode tool to analyze code vulnerabilities, resulting in an increase in code scan report scores from 75 to 99Fixed data synchronization issue in a batch job, by conducting detailed analysis to identify the root cause, modified database queries to ensure successful batch executionCollaborated with cross-functional teams in an Agile environment to successfully deliver high-quality projects within tight deadlines, adhering to software best practices	

PROJECTS

• Serverless webapp in multi-cloud (Tech: Node.js, AWS, Pulumi, GCP)	<i>September 2023 – December 2023</i>
<ul style="list-style-type: none">Developed a web application that leverages RESTful APIs and incorporated advanced authentication and authorization features, all within a GitHub repositoryEstablished CI pipelines using GitHub Actions following shift left principles, created an Amazon Machine Image (AMI) with a Debian source image, provisioned the web application artifact within the AMI, and configured automatic startup using systemdStreamlined AWS service creation using Pulumi for Infrastructure as Code, automated webapp deployment on an EC2 instance via AMI generated from integration pipeline and established RDS database deployment. Configured AWS components including IAM policies, roles, VPC, Route53, and CloudWatch, while hosting the application on a custom domainFacilitated email communication through Amazon SES utilizing AWS Lambda with SNS triggers, tracked email status with DynamoDB and managed file storage on GCP buckets	
• YouTube Clone (Tech: MERN stack)	<i>March 2023 - April 2023</i>
<ul style="list-style-type: none">Launched a video streaming website powered by React.js and Express.js, allowing users to upload, view, and share media content. Leveraged MongoDB for real-time capture and management of essential video dataDesigned secure RESTful APIs with JWT token authentication to facilitate protected user interactions and ensure data confidentialityCreated interactive web pages with multiple components using HTML5, CSS3, and JavaScript technologies, delivering a responsive and engaging user interface to enhance the overall user experience	
• Traveling Salesman Problem Optimization	<i>March 2023 – April 2023</i>
<ul style="list-style-type: none">Addressed the NP-hard traveling salesman problem challenge for 530 locations by implementing the Christofides algorithm and leveraging advanced data structures for efficient route optimizationApplied optimization techniques such as random swapping, 2-opt, simulated annealing and ant colony, resulting in a 35% reduction from the initial tour value	
• Healthcare data management	<i>December 2019 – March 2019</i>
<ul style="list-style-type: none">Streamlined process for validating patient information through secure electronic health record implementationEnhanced protection and verification of patient information by establishing replicated blockchain infrastructure	