

Varshini Nathala

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EDUCATION

California State University Long Beach

Master of Science in Computer Science

Long Beach, CA

Aug 2021 - May 2023

EXPERIENCE

AVISTECH

Software Engineer

Houston, TX

Jan 2023 – Present

- Implemented **Single Sign-On (SSO)** based **OAuth2 JWT** authentication and maintained the session state information throughout the application and third-party software.
- Migrated client's platform from a modular **monolithic architecture** to a **Spring Boot microservices** solution, reducing sluggish responsiveness, and boosting user experience and platform performance by 20% for Claims Portal Application.
- Developed and maintained automated UI tests using **Selenium WebDriver**, increasing test coverage by 20% and reducing **manual testing** time by 30%.
- Designed **data pipelines** to ingest and index data from databases, flat files, and APIs into **Elasticsearch**.
- Designed and developed scalable cloud solutions using **Amazon Web Services (AWS)**, leveraging a range of services including **EC2, lambda, VPC, S3, RDS, IAM, API Gateway, and CloudWatch**.
- Implemented **Junit frameworks** and conducted code reviews to ensure code quality and functionality through **Unit testing** and **Integration testing** using **Postman**, which results in reliable and continuous improvement in web applications.
- Collaborated closely with cross-functional teams, Participated in **Scrum calls**, and Implemented **Agile Methodologies** to incorporate user feedback and iterate on features, ensuring a user-centric approach.

TeamOne Software Technology

Software Engineer

Hyderabad, IN

Jun 2019 – Jul 2021

- Developed dynamic and interactive web applications using **React JS**, utilized **Tailwind CSS**, and built responsive design, and complex forms which enhanced overall usability and user experience.
- Re-engineered microservices framework using **Express.js** and **ES6** to streamline **MongoDB** interactions, achieving a 50% increase in data management efficiency and a 30% decrease in data processing errors,
- Demonstrated expertise in **Java Enterprise Edition (Java EE)** applications using technologies such as **Servlets, JSP, EJB, and JPA**.
- Worked on Spring modules like **Spring core, Spring MVC, and Spring Boot** and used **Spring Mongo** Template to integrate **Spring Framework** with **MongoDB**.
- Skilled in database access and manipulation using **JDBC** and **ORM frameworks** such as **Hibernate** and **JPA**, ensuring efficient data storage and retrieval.
- Followed **Test-Driven Development (TDD)** methodologies in creating front-end components that promote a developed environment and produce error-minimized code.
- Implemented automated infrastructure provisioning using **AWS CloudFormation** integrated with **Jenkins pipelines**, enhancing deployment efficiency, scalability, and maintainability through **Infrastructure as Code (IaC)** practices.

TECHNICAL SKILLS

Programming Languages:	Java, Python, JavaScript, TypeScript, C, C#, C++
Web Development:	HTML, CSS, Node.js, REACT JS, Angular JS, Spring Boot, REST API, Bootstrap, Tailwind
Database Technologies:	MySQL, PostgreSQL, MongoDB, DynamoDB, Hibernate
Cloud:	Amazon Web Services, AZURE
DevOps:	Jenkins, Git, GitHub, Jira, GitHub Actions, Docker, Kubernetes
Others:	Kafka, Prometheus, Selenium, Postman, MS Office

PERSONAL PROJECTS

- FilmCriticHub**: FilmCriticHub is a web application that utilizes **NodeJS, ExpressJS, Typescript, MongoDB, and React** to provide **APIs** for retrieving movie information and submitting reviews, allowing users to share their opinions and insights about their favorite films.
- Vehicle Number Identification**: Developed and implemented a Vehicle Number Identification system using Python and **Raspberry Pi 3**, leveraging image conversion technology for accurate license plate recognition. **OpenCV, OCR software, image quality tuning** for converting captured images into text format. Successfully processed the image using **MATLAB**, used algorithms and features displayed, and saved license plate information on the screen and server, showcasing real-time performance and effective functionality.

CERTIFICATIONS AND AWARDS

- Published a **journal** in IJSRCSEIT on **A Novel Approach to Vehicle Number Identification using Raspberry Pi 3**
- Achieved certification as **AWS Developer – Associate level**