

MOULYASREE MADAMANCHI

📞 704-361-5621 ✉️ moulya2310@gmail.com [🌐 LinkedIn](#) [🐙 Github](#)

Education

University of North Carolina at Charlotte

Master of Science in Computer Science

Sri Krishna College of Technology

Bachelor of Engineering in Computer Science

Aug 2023 – Dec 2024

Charlotte, North Carolina

Aug 2018 – May 2022

Coimbatore, India

Technical Skills

Programming Languages: Java, J2EE, JavaScript, Python, C, C++, Dart, HTML5, CSS, XML

Database Management: SQL, NoSQL, R, MongoDB

Developer Tools and Methodologies: Jenkins, Agile SDLC, VS Code, Linux

Cloud Platforms: AWS Cloud Services (EC2, S3, Lambda), Docker, Kubernetes

Testing Tools: JUnit, Mockito, Unit Testing

Technologies/Frameworks: Spring, Spring Boot, ReactJS, React Native, Redux, NodeJS, ExpressJS, Hibernate, Maven, Microservices, RESTful APIs, Mule, Apache Kafka, Flutter, Dart, Tailwind CSS

Experience

University of North Carolina at Charlotte

Aug 2024 – Dec 2024

Graduate Assistant

- Designed and delivered 15+ lectures on **database design, SQL**, joins, and normalization, increasing students' comprehension scores by 35% based on assessments
- Mentored 20+ students in SQL queries and performance tuning, leading to a 40% improvement in assignment scores.

HCL Technologies

Jun 2021 – Jul 2023

Software Engineer

Full-Time

- Developed 10+ reusable **ReactJS and Redux** UI components, reducing page load time by 30% and enhancing user experience
- Created a modal window with radio button-based file downloads, improving efficiency by 30% and minimizing user errors by 25%
- Engineered a backend service for data validation using **Java EE, Spring Boot, Hibernate, MongoDB**, efficiently handling over 100,000+ datasets
- Automated deployment pipelines using **Jenkins, Docker, and Kubernetes**, reducing deployment time by 40% and enhancing system scalability
- Integrated **GraphQL, Node.js, and Express.js RESTful web services** for seamless API interactions, reducing data retrieval errors from 13.7% to 2.3%.

HCL Technologies

Jan 2021 – May 2021

Intern

- Integrated front-end and back-end modules using ReactJS and Spring Boot, optimizing API response time by 20%
- Configured a dynamic UI-driven analytics platform using **ReactJS and JavaScript**, enabling real-time insights and reducing project turnaround by 25%

Projects

Pharmacy Retail Inventory Management System

- Implemented a web-based pharmacy inventory system with **React, Spring Boot, and MariaDB**, reducing stockouts by 40% and increasing tracking accuracy by 30%
- Automated inventory tracking, reducing stock errors by 50% and improving stock transfer efficiency by 30%

A Personal-Budget Web Application

- Built an interactive project metrics dashboard with React and JavaScript, cutting report generation time by 40% and increasing data retrieval speed by 35%
- Architected the application infrastructure on AWS Cloud using **EC2 for scalable compute, S3 for secure storage**, and Lambda for serverless execution, ensuring 99.9% availability

Project Metrics Dashboard

- Implemented a real-time performance monitoring system using **React and JavaScript**, reducing delays by 20% and improving operational insights
- Engineered a data-driven workflow **automation tool**, enhancing team efficiency and increasing task completion rate by 30%

Certifications

Java and Database Management Systems - NPTEL

Full Stack Java Developer - Exelior

React Js -Simplilearn