

PROFESSIONAL SUMMARY

- 3 of experience in full-stack development, focusing on front-end and back-end technologies.
- Adept in developing responsive user interfaces using React, Angular, Tailwind CSS, and Bootstrap.
- Competent in creating server applications using Spring Boot, Node.js, and Express.js, integrating event-driven architecture and microservices for optimal scalability and efficiency.
- Experienced in handling various database systems such as MongoDB, MySQL, PostgreSQL, and Oracle, prioritizing data accuracy and system performance.
- Familiar with Amazon Web Services, using offerings such as EC2, Lambda, RDS, and DynamoDB for building scalable online solutions.
- Proficient in using Docker and Kubernetes for application deployment and management, and knowledgeable in streamlining software delivery processes using Jenkins.
- Certifications - [AWS Developer Associate](#), [React Professional](#)

WORK EXPERIENCE

Graduate Research Assistant - University of North Carolina at Charlotte

Aug 2023 – Dec 2023

➤ *Toyota Racing Development (TRD)*

- Engineered a **React.js** application for uploading, managing, and downloading time series race data, enabling the selection, and filtering of race data, and facilitating customized data downloads.
- Migrated the application database from **MongoDB** to **PostgreSQL**, leading to performance optimization through efficient data indexing and query optimization.
- Designed two RESTful APIs using **Node.js** and **Express.js** for accessing race details and filtering channel data, enhancing the application's data retrieval capabilities.
- Refined Python scripts for targeted data filtering and parsing, managed database schema migrations with Knex.js, and deployed the application using **Docker** for improved scalability.
- Implemented **Jest** for rigorous testing of React application, ensuring high reliability and functionality.

Software Engineer – Full Stack Developer

Sept 2020 – Jul 2022

➤ *Tata Consultancy Services*

- Enhanced the Transaction Management module for a banking application using **React.js**, incorporating **Redux** for efficient state management and implementing lazy loading which reduced the initial load time by **25%**.
- Developed robust backend services for transaction processing using Java **Spring Boot**. Architected efficient RESTful APIs for real-time transaction management and history retrieval.
- Implemented Spring Data **JPA** for efficient transaction database management and integrated Redis caching, which resulted in a **40%** reduction in data retrieval time.
- Incorporated Spring Security for transaction data protection and conducted comprehensive module testing using JUnit and Mockito to ensure system integrity and reliability.
- Collaborated with cross-functional teams to create Docker files for scalable deployment and implemented Jenkins for efficient continuous integration and delivery.

Software Engineer Intern – Java Backend Developer

May 2019 – Dec 2019

➤ *Innogeeks Technologies*

- Developed RESTful APIs using Spring Boot for an online supermarket platform, enhancing data handling for transaction and inventory management.
- Streamlined database operations in the order scheduling system using Spring Data JPA, facilitating more efficient processing of online grocery orders.
- Integrated WebSocket technology within Spring Boot for live inventory updates, significantly improving stock accuracy and enhancing the customer shopping experience.
- Contributed to the development of a customer feedback module using Spring Boot, enabling effective service improvement through data-driven insights.

TECHNICAL SKILLS

Programming Languages:	Java, JavaScript, Typescript, Python, C++, C#, HTML5, CSS3, SQL.
Frontend:	React, Angular, React Hooks, Redux, D3.js, jQuery, Bootstrap, Tailwind CSS.
Backend:	Spring Boot, Node.js, Express.js, Hibernate, Flask, Django.
Databases:	PostgreSQL, MySQL, MongoDB, Oracle.
Cloud Services:	AWS EC2, AWS RDS, AWS DynamoDB, AWS Lambda.
Others:	Docker, Kubernetes, Jenkins, Apache Kafka, Git, JUnit, Mockito, Jest, VS Code.

PROJECTS

Job Application Portal:

- Built a user-friendly job portal using MERN stack, incorporating Redux, lazy loading, and custom hooks for enhanced functionality.
- Employed JWT for secure login experience and built a powerful backend with Node.js and Express.js, enhancing user interaction and data handling.
- Crafted a seamless user experience for both job seekers and recruiters, supported by efficient database operations with MongoDB, including real-time updates and data retrieval.

E-Wallet Microservice Application:

- Engineered a Java and Spring Boot-based e-wallet platform, modularizing key features like User Profiles and Transactions into microservices while adhering to RESTful standards.
- Implemented Apache Kafka for efficient message queuing and integrated Redis caching to boost data access speed and system performance in high-load scenarios.
- Enhanced security with Spring Security and OAuth2, and utilized Docker for efficient service deployment, improving workflow across development, testing, and production stages.

ACHIEVEMENTS & PUBLICATIONS

- Honored with Tata Consultancy Services 'Innovation Excellence' Award for outstanding project contributions.
- "Autonomous obstacle avoidance robot using regression," presented at the ICCIDE 2020 Springer Conference. ([Link](#))
- "Forecasting the number of infections of novel coronavirus with deep learning," published in the International Journal of Computer Applications (IJCA). ([Link](#))

EDUCATION

University of North Carolina at Charlotte	Aug 2022 - Dec 2023
Master of Science in Computer Science	
VR Siddhartha Engineering College	Aug 2016 - Sept 2020
Bachelor of Technology in Computer Science and Engineering	