

PROFESSIONAL SUMMARY

- Full-stack developer with 3 years of experience in **Java** and **JavaScript**, specializing in building scalable, data-driven, and efficient software solutions.
- Experienced in creating responsive user interfaces with **React** and developing robust server-side applications using **Spring Boot** and **Node.js**.
- Proficient in designing scalable **microservices** for event-driven architectures, focusing on loosely coupled, maintainable systems. Experienced in managing diverse data formats, including **JSON** and **XML**, for effective data integration and communication.
- Skilled in managing large-scale relational (MySQL, PostgreSQL) and NoSQL databases (MongoDB), focusing on scalability and high availability.
- Knowledgeable in **CI/CD processes** utilizing Jenkins, Docker, and Kubernetes, with expertise in Git/GitHub for version control. Dedicated to **agile** practices for optimal software quality and deployment efficiency.
- Certifications - [AWS Developer Associate](#), [Certified React Developer](#)

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 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 – Tata Consultancy Services

Sept 2020 – Jul 2022

- 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%**.
- Designed **RESTful APIs** and developed backend services using Spring Boot, with **Kafka** integration for efficient real-time data exchange between account management and transaction microservice modules.
- Implemented Spring Data **JPA** with PostgreSQL for efficient transaction database management and integrated **Redis** for caching, which resulted in a **40%** improvement in data retrieval time.
- Incorporated Spring Security with **OAuth2** for robust transaction data protection, focusing on enhancing authorization processes. Conducted comprehensive testing of the module using **JUnit** and **Mockito**.
- Collaborated with cross-functional teams to create **Docker** files for scalable deployment and implemented Jenkins for efficient continuous integration and delivery.

Software Engineer Intern - Innogeecks Technologies

May 2019 – Dec 2019

- Developed **RESTful APIs** using Spring Boot for an e-commerce platform, enhancing data handling for transaction and inventory management, and achieving a **15%** reduction in API response times.
- Streamlined database operations in the order scheduling system using Spring Data **JPA**, facilitating more efficient processing of online 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, HTML5, CSS3, SQL.
Frontend:	React, Angular, Redux, 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.
Methodologies:	Agile, SDLC, Waterfall
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

GPA: 4/4

Master of Science in Computer Science