

# AakarshitRaj

SystemEngineer|MERNStackDeveloper|FullStackDeveloper

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## PROFILESUMMARY

Full Stack Developer specializing in the MERN stack, with a strong grasp of **JavaScript (ES6+)** and **TypeScript fundamentals**, adept at responsive **React, HTML, CSS** front-end development, secure **REST API design**, and scalable back-end services. Possessing a solid foundation in **computer science fundamentals**, including **data structures, algorithms, and software design principles**. Experienced in **Docker, CI/CD pipelines**, and cloud-based deployments (**AWS**). Committed to writing **clean, maintainable, and efficient code** with a focus on **front-end performance optimization techniques**, delivering user-focused solutions, and contributing effectively within **collaborative, cross-functional Agile teams**. Proactive mindset with eagerness to learn new technologies and **tackle real-world engineering challenges**.

## WORKEXPERIENCE

TataConsultancyServices(TCS)|SystemEngineer June2024-Present

FullStackDeveloper-MERNStack

- Developed and deployed enterprise web applications leveraging **JavaScript (ES6+)**, **React.js**, **Node.js**, **Express.js**, and **MongoDB**, adhering to **software design principles**.

- Engineered responsive front-end modules using **React.js/Redux**, **HTML**, and **CSS**, integrating them seamlessly with secure REST APIs. Applied **front-end performance optimization techniques** for enhanced user experience.

- Designed and built secure, scalable **RESTful APIs** with **Node.js/Express**, implementing **JWT authentication** and role-based access to ensure robust security and maintainable architecture.

- Managed the API lifecycle with Amazon API Gateway and utilized **MongoDB Atlas** for high availability, contributing to efficient deployment processes and a **fast development velocity**.

- Orchestrated the deployment of applications across development, staging, and production environments using robust **CI/CD pipelines**.

- Conducted thorough **API testing and debugging** utilizing Postman, Chrome DevTools, and React Developer Tools, demonstrating proficiency in **unit and integration testing frameworks**.

- Collaborated effectively in **cross-functional Agile teams**, actively participating in sprint planning, reviews, and pair programming, demonstrating **clear communication skills** and a commitment to writing **clean, maintainable, and efficient code**.

AutomationWork

- Automated recurring reporting tasks using Excel VBA Macros, reducing manual effort and improving turnaround time.

## TECHNICALSKILLS

Languages: **JavaScript (ES6+, Fundamentals)**, **TypeScript**, C/C++, Java, SQL, **HTML5**, **CSS3**

Frontend: **React.js**, Redux, TailwindCSS, **Responsive UI Design**, **Front-end Performance Optimization Techniques**

Backend: Node.js, Express.js, **RESTful APIs**, JWT Authentication, Microservices Architecture, Event-driven Programming (Async/Await, Promises), **MongoDB**

Databases: **MongoDB Atlas**, MySQL, SQL, Redis(Caching)

Cloud&DevOps: AWS(APIGateway, EC2, S3, Lambda), Docker, Kubernetes(basic), GitHubActions, GitLabCI/CD, Multi-cloud exposure(Azure,GCPconcepts)

Testing&Debugging: **Jest, Mocha (Unit and Integration Testing Frameworks)**, TDD), Postman, ChromeDevTools, ReactDeveloperTools, Logging&Monitoring;

VersionControl&Practices: Git, GitHub, GitLab, **Agile/Scrum** (enabling cross-functional collaboration), **CI/CD**, **Clean Code**, Component-Based Architecture, **Software Design Principles**

## EDUCATION

KalingaInstituteofIndustrialTechnology Bhubaneswar,Odisha

BachelorofTechnologyinComputerScienceEngineering(CSE)CGPA-8.59 2020-2024

## PROJECTS

### 1.RentAVehiclePlatform(MERNStack)

■Developed a full-stack vehicle rental system utilizing a **React.js** (incorporating **HTML** and **CSS**) frontend and a **Node.js/Express** backend, showcasing strong **JavaScript (ES6+)** fundamentals.

■Integrated **MongoDB Atlas** for scalable data persistence and implemented robust **JWT authentication** for secure user interactions, adhering to **software design principles**.

### 2.E-CommerceStoreApp(React.js,Redux,Axios,Docker,MongoDB)

■Built a responsive online store with **React.js/Redux**, **HTML**, and **CSS**, featuring dynamic API integration via Axios and demonstrating **front-end performance optimization techniques**.

■Containerized the application using **Docker**, running **MongoDB** in a containerized environment to facilitate seamless local development and efficient deployment, reflecting **clean, maintainable code** practices.

■Ensured cross-browser compatibility and actively **optimized front-end performance** to deliver a smooth user experience, addressing **real-world engineering challenges** in UI/UX.

## ACHIEVEMENTSANDCERTIFICATIONS

■Solved more than **300+** problems of Data Structure and Algorithms (DSA) across Coding Platforms (Leetcode and GFG), demonstrating a **strong grasp of computer science fundamentals** and **competitive programming experience**.

■Appreciation Certificate – Group Representative (GR), Initial Learning Program By TCS. Awarded 2024 (Demonstrates **clear communication skills** and leadership within a **cross-functional team**).

■Xcelerate Warrior Recognition by Tata Consultancy Services · Awarded 2025 (Reflects a proactive mindset and ability to **tackle real-world engineering challenges**).

■On the Spot (Team) Award by Tata Consultancy Services · Awarded 2025 (Highlights effective **collaboration** within a **cross-functional team**).

■Best Team Award by Tata Consultancy Services · Awarded 2025 (Further emphasizes **collaborative teamwork**).

■Building RESTful APIs with Node.js and Express by LinkedIn (Demonstrates **eagerness to learn new technologies**).

■MongoDB by Udemy

■React (Basic) Certificate by HackerRank

■AWS Academy Graduate – AWS Academy Introduction to Cloud (Semester 1) by Amazon Web Services (AWS)

■Problem Solving (Basic) by HackerRank

■Problem Solving (Intermediate) by HackerRank