Aakarshit Raj

Software Engineer — MERN Stack Developer — Full Stack Developer

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PROFILE SUMMARY

MERN Stack Developer with strong hands-on experience building full-stack web applications using React, Node.js, Express, and MongoDB. Skilled in developing RESTful APIs, JWT-based authentication, role-based access control, and performance-optimized React applications. Currently working at TCS in a data-driven engineering role while actively building production-grade MERN projects.

WORK EXPERIENCE

Tata Consultancy Services (TCS) — Software Engineer   June 2024-Present
Full Stack Developer — MERN Stack Developer

- Developed responsive and interactive UIs using React.js, Redux, Tailwind CSS, and component-based architecture.
- Integrated REST APIs using Axios, optimized UI rendering, and reduced unnecessary re-renders using memoization & React lifecycle understanding.
- Built modular, reusable frontend components improving maintainability and reducing UI bugs by 30%.
- Collaborated in Agile teams for sprint planning, peer code reviews, and cross-functional delivery.
- Designed and consumed JWT-authenticated APIs; implemented role-based UI restrictions and secure route handling.
- Conducted debugging via Chrome DevTools & React DevTools, improving UI performance and API response handling.
- Implemented backend services using Node.js/Express
- Worked with MongoDB/MySQL for handling CRUD flows and optimized data fetching for UI performance.
- Contributed to microservices, API testing, and documentation using Postman.

TECHNICAL SKILLS

Languages: C++, JavaScript (ES6+), TypeScript (Basic), Java (Basic)
Frontend: React.js, Redux, Tailwind CSS, HTML5, CSS3
Backend: Node.js, Express.js, REST APIs, JWT Authentication
Database: MongoDB, MySQL
Tools: Git, GitHub, Postman, VS Code
Concepts: Authentication, RBAC, API Design, Pagination, Performance Optimization

PROJECTS   Repository Link

1. Rent A Vehicle Platform — MERN Stack
Tech: React.js, Node.js, MongoDB, MySQL, Express.js, JWT
- Developed a full-stack vehicle rental application using MongoDB, Express.js, React.js, and Node.js.
- Built RESTful APIs, implemented JWT authentication, and secured protected routes.
- Migrated data from MongoDB to MySQL, improving query performance and data consistency.

2. Food Ordering Menu Application — React.js, Node.js, MongoDB
Tech: React.js, Node.js, Express.js, MongoDB, Tailwind CSS
- Built a responsive food ordering application with dynamic UI and secure APIs.
- Implemented RBAC (Admin/Manager/Customer) and CRUD modules for orders, menus, and users.
- Enhanced UI/UX and optimized API calls using Tailwind CSS and Axios.

3. Real-Time Payment Analytics Dashboard
Tech: React.js, Node.js, Express.js, MongoDB
- Built a full-stack dashboard to track payment events (success, failed, pending) with real-time analytics.
- Designed MongoDB schemas with indexing and pagination for scalable data retrieval.
- Added advanced filters (date, payment method) and CSV export functionality.
- Optimized frontend performance using memoization and efficient state management.

EDUCATION

Kalinga Institute of Industrial Technology   Bhubaneswar, Odisha
Bachelor of Technology in Computer Science Engineering (CSE)   *2020-2024*

ACHIEVEMENTS AND CERTIFICATIONS

Appreciation Certificate – Group Representative (GR), Initial Learning Program By TCS. Awarded 2024
Xcelerate Warrior Recognition by Tata Consultancy Services · Awarded 2025
On the Spot (Team) Award by Tata Consultancy Services · Awarded 2025
Best Team Award by Tata Consultancy Services · Awarded 2025
On the Spot Award by Tata Consultancy Services · Awarded 2025