

KUNAL SINGH

Full Stack Developer

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SUMMARY

I am a dedicated Full-Stack Software Developer with over 4 years of experience in designing, developing, and maintaining enterprise-level applications. I specialize in building high-performance server-side applications and RESTful APIs using Node.js and Express.js. With strong expertise in React and database management, I contribute effectively to diverse projects. I prioritize collaboration and continuous learning to drive project success.

EXPERIENCE

Application Developer 08/2024 - Present
TELUS International

Project- Telus Online Test System
Domain: Recruitment

- Contributed to the development of an internal web-based assessment platform used by the HR team to assign and manage technical tests for job candidates.
- Developed dynamic and responsive user interfaces using ReactJS, enhancing user experience for both HR personnel and candidates.
- Built and maintained RESTful APIs using Node.js and Express.js, ensuring reliable communication between the frontend and backend services.
- Designed and implemented PostgreSQL database schemas to manage users, assessments, questions, submissions, and results efficiently.
- Enabled skill-based test assignment and tracking by integrating logic to match candidate profiles with relevant assessments.
- Implemented features such as test creation, time tracking, auto-submission, and result reporting to support the full testing lifecycle.
- Collaborated closely with QA and DevOps teams to ensure smooth deployment and testing in staging and production environments.
- Improved test platform reliability and maintainability by applying best practices in full-stack development and code documentation.

Application Developer
TELUS International

Project- CASA – Mock Server
Domain- Telecom

- Collaborated with the Node.js team to design and develop a mock server to simulate backend APIs for frontend and QA testing.
- Built RESTful endpoints using Express.js to support key CASA workflows, ensuring seamless integration and test coverage.
- Integrated the mock server with PostgreSQL to simulate dynamic data responses and handle CRUD operations effectively.
- Enabled faster UI development and QA validation by decoupling frontend from backend service dependencies.
- Facilitated testing in isolated environments by implementing mock authentication flows and sample datasets.
- Enhanced team productivity by documenting API contracts and mock data structures clearly for frontend and QA teams.

Dev-Technical Assistant 08/2021 - 07/2024
T&M Consulting Services Pvt. Ltd. (RITES Ltd.)

Project- ISB (Billing & Monitoring System)
Domain: Billing

- Contributed to the development of a vendor-facing web platform for bill submission, payment tracking, and inspection call booking, used by RITES LTD vendors.
- Enabled vendors to submit invoices, monitor processing status, and book inspection calls directly through the system, reducing manual coordination.
- Built interactive and reusable UI components using ReactJS, with centralized state management via Redux Toolkit for a seamless user experience.
- Integrated real-time updates and API responses for billing status, approvals, and inspection scheduling workflows.
- Collaborated with backend developers to align on API design and data flow, ensuring accurate functionality across the application.
- Improved user engagement and transparency by implementing intuitive dashboards and notification components.
- Participated in code reviews, maintained version control with Git, and followed agile development practices for timely feature delivery.

SKILLS

JavaScript, TypeScript, ReactJs, NodeJs, ExpressJs, PostgreSQL, Redux ToolKit, MongoDB, Prisma, Mongoose, JWT, SQL, CSS, TailwindCss, HTML, API Integration, Microservices, Unit Testing, OAuth, Agile, Waterfall, Microservices

TOOLS

Git, Jira, Confluence, Jest, Postman, VsCode, Github co-pilot.

KEY ACHIEVEMENTS

- Implemented secure access control mechanisms Successfully developed and managed authentication and authorisation workflows using JWT and OAuth
- Developed independent deployment capabilities Built scalable microservices architecture with NodeJs and Docker.

INTERESTS

- Building Scalable Web Applications
- Front-End Innovation with React
- Back-End Architecture with Node.js
- Problem Solving

EDUCATION

BCA (Bachelor of Computer Applications)
IEC University
2018 - 2021