Kumang Subba

FULL-STACK DEVELOPER

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Summary

Full-stack developer with hands on expertise in developing production grade web and mobile applications with a deep understanding of both frontend and backend systems. Proficient in React, Node.js, TypeScript, and Golang. Experience includes containerization with Docker, CI/CD with GitHub Actions, and hands-on backend architecture with both NoSQL (MongoDB) and relational (MySQL) databases.

Experience

Kesko Oyj | Mobile application developer intern

- Architected and implemented a cross-platform warehouse performance-tracking app using React Native (Expo) with Context API for state management.
- Utilized React Hook Form and Zod for form handling and robust client-side validation.
- Built a backend system in Node.js (Express.js), utilizing MongoDB (Atlas) for NoSQL, bcrypt for hashing, and JWT token-based authentication.
- Implemented an internal API architecture following RESTful principles and the middleware pattern, using modular route controllers and layered middleware pipelines for scalability and maintainability.
- Collaborated with stakeholders for requirements mapping and integrated iterative feedback into development deliverables.
- Employed Git based workflows with GitHub, leveraging Husky, ESLint, and Prettier for code quality enforcement.

Education

Laurea University of Applied Sciences | 2023 - current

- Focused on full-stack development, data analysis, systems analysis, and business-oriented software design.

Projects

Post | Blogging web application

- Built a full-stack blog system with a React (with Vite as the build tool) SPA frontend and TypeScript.
- Developed the backend using Node.js (Express) with handwritten MySQL queries (no ORM), hosted on AWS EC2, interfacing with an AWS RDS-hosted MySQL database.
- Integrated Editor.js for structured rich text editing, form validation via Zod, and React Hook Form for form handling.
- Handled image uploads to AWS S3 using presigned URLs, enabling secure client to S3 direct uploads.
- Designed a modern UI using TailwindCSS and animated transitions via Framer Motion.

Tune | Lightweight music SPA

- Developed a SPA using Vanilla JS with client-side routing via custom route parsing.
- Configured Netlify _redirects to serve index.html for all paths, mimicking server-side behavior.
- Used a custom Node.js dev server with express.static() and fallback routing logic.

The Hub | Movie web app

- Built using React with hooks and TheMovieDB API.
- Search functionality implemented via controlled inputs and query parameters for URL based filters,with debouncing to minimize API calls and improve performance.
- Emphasis on reusable UI components and separation of concerns using container pattern.

Technical skills

- **Programming languages:** JavaScript, Typescript, Golang, C++
- **Frontend:** React, Vite, TailwindCSS, Framer Motion, React Native, Context API, Editor.js, i18n, React Hook Form
- **Backend:** Node.js, Express.js, REST API design, bcryptjs, JWT
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS (S3, EC2, RDS), Docker, GitHub Actions, Netlify, Render
- **Tools:** Git, ESLint, Prettier, Husky, Make, CMake, Vscode, Neovim