

# Kumang Subba

Software Engineer | Helsinki, Finland

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## Summary

Software Engineer specializing in **React, TypeScript, and building scalable, testable, and maintainable web applications**. Experienced in designing and implementing modern UIs, optimizing performance, and ensuring web security best practices. Skilled in both frontend and backend development, with solid experience in **Next.js, Node.js, SQL/NoSQL databases**, and CI/CD pipelines. Strong background in collaborating within cross-functional teams, taking ownership of entire components, and delivering secure, high-quality software solutions. Passionate about continuous learning, adopting new technologies, and growing as a professional software engineer.

## Experience

### Vesko | Software Engineer | Jan 2024 - Present

- Led **frontend development** initiatives, providing mentorship and guidance to improve team efficiency and code quality, ensuring seamless user experiences for enterprise-level applications.
- Integrated critical APIs into the frontend with a strong focus on **error resilience, loading performance**, and **secure data flow**, directly impacting app responsiveness and user satisfaction.
- Designed and maintained **CI/CD pipelines** using **Azure DevOps**, automating testing, builds, and deployments for the web platform, contributing to high code quality standards.
- Identified and resolved a critical issue causing multiple redundant network requests, significantly reducing unnecessary traffic and **improving app responsiveness** and overall **user experience**.
- Advocated for **scalable frontend architecture** and **performance-first coding standards**, enhancing maintainability and long-term product evolution.
- Implemented Azure Communication Chat services, designing a custom interaction system that enhanced user engagement and modified backend services to meet specific application requirements.

### Kesko Oyj | Application Developer Intern | Jul 2023 – Dec 2023

- Architected and implemented a cross-platform warehouse performance-tracking application using **React Native (Expo)** with **Context API** for state management, demonstrating adaptability across platforms.
- Utilized **React Hook Form** and **Zod** for robust client-side form validation, ensuring data integrity and a smooth user input experience.
- Built a backend system in **Node.js (Express.js)**, using MongoDB (Atlas) and implementing **JWT token-based authentication** for secure data handling.
- Employed **Git-based workflows with GitHub**, leveraging **Husky, ESLint, and Prettier** for enforcing high **code quality standards** and collaborative development.

## Projects

### Post | Blogging Web Application

- Built a full-stack blog system with a **React (with Vite) SPA frontend** and **TypeScript**, showcasing

comprehensive frontend development capabilities.

- Designed a modern UI using **TailwindCSS** and animated transitions via **Framer Motion**, focusing on a **seamless user experience** and aesthetic appeal.
- Integrated **Editor.js** for structured rich text editing and utilized **React Hook Form** with **Zod** for robust form handling.
- Developed the backend using **Node.js (Express)** with MySQL, handling image uploads to AWS S3 using presigned URLs for secure client-to-S3 direct uploads.

### **Redis Clone (C++) | Systems Programming**

- Developed a simplified Redis clone from scratch, focusing on **performance optimizations** and efficient in-memory data structures, demonstrating deep understanding of system architecture.

### **Technical Skills**

- **Frontend:** React, TypeScript, Next.js, React Query, TailwindCSS, Framer Motion, React Native, Context API, Editor.js, i18n, React Hook Form, Jest, Vite, Zod, REST API design, **Chakra UI (Self-study/Familiarity)**, **Web Performance Optimization**, **Web Security Best Practices**, **Web Accessibility (WCAG)**, Front-end Tooling (Package Managers, Linters, Build Tools)
- **Backend:** Node.js, Express.js, REST API Design, bcryptjs, JWT, MySQL, MongoDB, Go, Python
- **Cloud & DevOps:** AWS (S3, EC2, RDS), Azure DevOps (CI/CD Pipelines), Docker, GitHub Actions, Netlify, Render
- **Tools:** Git, ESLint, Prettier, Husky, Make, CMake, VSCode, Neovim
- **Operating Systems:** Windows, Linux

### **Education**

#### **Laurea University of Applied Sciences | 2023 - Current**

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

**References available upon request**