

Samarajya Shrestha

Software Engineer | React, Next.js, Node.js, Fastify, Flutter & PostgreSQL | AI/LLM

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Professional Summary

Full-Stack Software Engineer with **5+ years of professional experience** designing, developing, and deploying production web and cross-platform mobile applications. Strong expertise in **React, Next.js, Node.js, Fastify, TypeScript, Flutter, PostgreSQL, and AWS**, with hands-on experience across frontend, backend, API architecture, databases, cloud deployment, and CI/CD.

Experienced in building **scalable REST APIs, secure authentication systems, database-driven applications, cross-platform mobile products, automated document generation, and AI-powered features using LLM APIs**. Hands-on experience with LLMs, AI-assisted software development, Claude Code, agentic/AI coding workflows, prompt-driven development, and integrating AI capabilities into production applications.

Proven track record of improving application performance, streamlining deployment workflows, mentoring developers, and delivering production-ready software across web and mobile platforms.

Technical Skills

Languages: JavaScript, TypeScript, Dart, SQL

Frontend: React.js, Next.js, Vue.js, Tailwind CSS, Vite

Mobile: Flutter, Android, iOS, Cross-Platform Development

Backend: Node.js, Fastify, Express.js, REST APIs, API Architecture, Authentication, SuperTokens

Databases & ORMs: PostgreSQL, MongoDB, Supabase, Drizzle ORM, Mongoose, Slonik, pgvector

AI / LLM / Agentic Development: LLMs, OpenAI API, Google Gemini API, Claude Code, AI-Assisted Development, AI Coding Agents, Agentic Workflows, Prompt Engineering, AI Application Integration, Embeddings, Vector Search

Cloud & DevOps: AWS, S3, SNS, Docker, Vercel, Netlify, GitHub Actions, GitLab CI/CD

Tools & Services: Git, GitHub, GitLab, Puppeteer, FFmpeg, Elasticsearch, RevenueCat, Twilio, Cloudinary, Resend

Professional Experience

Dzango Tech Accelerator

Software Developer / Full-Stack Developer

Nov 2021 – Aug 2026

Design, develop, and maintain production-grade **web and cross-platform mobile applications** using React, Next.js, Fastify, Node.js, Flutter, TypeScript, and PostgreSQL.

- Improved application performance by **30%** through code optimization, caching strategies, and database indexing.
- Reduced deployment time by **40%** by implementing and improving CI/CD pipelines across multiple environments using **GitHub Actions and AWS**.
- Architected and developed **Fastify-based REST APIs** with secure passwordless authentication using **SuperTokens, AWS SNS, and Twilio**.
- Designed database schemas, API workflows, authentication flows, error handling, and backend services for production applications.
- Delivered a full-featured **Android and iOS cross-platform application within three months** from initial development.
- Integrated **AI/LLM capabilities** into applications using APIs from OpenAI and Google Gemini for content generation, summarization, and intelligent application features.

- Applied **AI-assisted development workflows and coding agents**, including Claude Code, to accelerate implementation, debugging, refactoring, and development workflows.
- Conducted **10+ internal technical training sessions**, helping improve coding standards, collaboration, and engineering productivity.

Selected Projects

1. Noyau — AI-Powered Introspection App

Flutter | Node.js | Fastify | PostgreSQL | OpenAI API | pgvector | AWS

- Designed and developed a cross-platform AI-powered note-taking application using **Flutter** with a Fastify/Node.js backend.
- Integrated **LLM-powered note summarization and reflection capabilities** to transform user notes into useful insights.
- Implemented AI-driven workflows for summarization, exploration, and deeper analysis of user-created content.
- Developed custom functionality within **Flutter Quill** for linking and connecting related content.
- Designed backend APIs and PostgreSQL data models to support note synchronization and AI-powered features.
- Implemented semantic search capabilities using **vector embeddings and pgvector** to identify related notes and content.

2. Lemonaide — Vehicle Inspection & Reporting Platform

Flutter | Node.js | Fastify | React.js | PostgreSQL | AWS

- Built a production cross-platform mobile application for vehicle inspections along with a web-based administration and quality-assurance platform.
- Developed backend APIs using **Node.js/Fastify** and PostgreSQL to manage inspection workflows and application data.
- Implemented automated **PDF inspection report generation**, transforming inspection data into structured business documents.
- Developed workflows connecting mobile inspection processes with administrative review and quality-assurance operations.
- Deployed and maintained application services on **AWS**.

3. Aspire Automotive — Car Rental Platform

Next.js | React | Supabase | Cloudinary | Resend | Vercel

- Developed a full-stack car rental platform using **Next.js**, including responsive frontend interfaces and backend REST API functionality.
- Designed relational database schemas and application data workflows using Supabase.
- Implemented authentication, validation, error handling, and business workflows.
- Integrated **Cloudinary** for media management and **Resend** for transactional email functionality.
- Deployed the application using **Vercel**.

Education

Bachelor's in Computer Engineering

2015 - 2019

National College of Engineering