

Natnael Tamiru

Full-Stack Developer | AI/ML Enthusiast

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PROFESSIONAL SUMMARY

Software Engineer who has worked with different clients over the past years, building web and mobile applications and helping turn ideas into products. I enjoy solving problems and creating reliable systems, focusing on writing clean, maintainable code and delivering solutions that work well in real-world environments. My main work involves JavaScript and TypeScript with Node.js (NestJS, Express.js) and Bun, and I also use Go and Python for backend services when performance or specific tools are needed. On the frontend, I work with React.js and Next.js, and I build mobile apps using Expo (React Native). I'm also comfortable translating designs from Figma into responsive and user-friendly interfaces. I have experience designing REST and GraphQL APIs, integrating databases, and building scalable applications. I also work on AI agent development, automation tools, and Telegram bots that help automate tasks and solve real problems. I enjoy collaborating with teams and clients, continuously improving systems, and delivering production-ready software using testing, CI/CD, and modern development practices.

TECHNICAL SKILLS

Programming Languages: JavaScript | TypeScript | Python | Go | SQL | Bash |

Frontend Development: HTML5 | CSS3 | React.js | Next.js | Tailwind CSS | ShadCN UI | Redux | Zustand | TanStack Query | Framer Motion | Vite | React Router | Sass / SCSS | Prettier | Jest | Vitest | React Testing Library | Figma (design-to-code) | Axios | React Hook Form | Formik | D3.js / Recharts

Backend Development: Node.js | Express.js | NestJS | Bun | Django | REST APIs | GraphQL | Firebase | JWT Authentication | OAuth 2.0 | WebSockets | Socket.IO | Microservices Architecture

Database & ORM: PostgreSQL | MySQL | MongoDB | Redis | Firebase | Prisma | SQL & NoSQL Database Design | Data Modeling | Query Optimization | Transactions & Indexing | Caching Strategies

AI Agents & Automation: AI Agent Development | Python (ML/AI Libraries) | LangChain (*Learning*)

DevOps & Cloud: Docker | Kubernetes | CI/CD (GitHub Actions)

PROJECTS

My Fellow– Centralized digital platform for AAU 4-Killo (ECSF)

A comprehensive mobile application for the AAU 4-Killo (ECSF), providing students and leaders with real-time announcements, events, daily devotionals, ministry team management, digital giving, and community tools.

Tech Stack:

- **Frontend:** React Native (Expo SDK 54), TypeScript, NativeWind (Tailwind CSS)
- **Backend:** Node.js (NestJS, Express.js), Bun
- **State Management:** Zustand
- **Navigation:** Expo Router
- **APIs & Integrations:** Axios, Telegram Bot (I4U_TEAM_bot), Chapa Payment, Push Notifications
- **Storage & Security:** AsyncStorage, Expo SecureStore

Live GitHub: <https://github.com/arar-kilo-fellowship/my-fellow>

PROJECTS

PR Reviewer AI Agent

An AI-powered pull request reviewer built with FastAPI, LangChain, LangGraph, and Google Gemini that automatically analyzes GitHub and GitLab pull requests for security vulnerabilities, performance issues, and clean code improvements. It features webhook automation, manual review triggers, repository restrictions, and direct PR/MR feedback posting with an intelligent ReAct agent architecture.

Tech Stack:

- Backend: Python, FastAPI
- AI/LLM: Google Gemini, LangChain, LangGraph
- DevOps: Docker, Render, GitHub Actions
- APIs & Integrations: GitHub API, GitLab API, Webhooks
- Other Tools: Pydantic, Uvicorn

Live: <https://pr-site-six.vercel.app/>

GitHub: <https://github.com/natitam1/pr-reviewer-agent>

AI-Powered 4KILO ECSF Backend System

A high-performance backend API system built for the 4KILO Christian Students Fellowship platform, powering authentication, events, marketplace operations, secure payments, media management, and AI-generated content. The system features scalable REST APIs, JWT authentication, Prisma ORM integration, Cloudinary media handling, Chapa payment processing, advanced rate limiting, and AI-powered poster generation.

Tech Stack:

- Backend: Node.js, Express.js, TypeScript
- Database: PostgreSQL, MongoDB, Prisma ORM, Mongoose
- Authentication & Security: JWT, Helmet, Express Rate Limit
- Cloud & Media: Cloudinary
- Payments: Chapa API
- AI Integration: Google Gemini API, Fal.ai Flux
- DevOps & Tools: GitHub Actions

GitHub: <https://github.com/4kilo-fellowship/my-fellow-api>

QuickBlog – AI-Powered MERN Blog Platform

A full-stack blogging platform built with the MERN stack, integrating Google Gemini for AI-assisted writing and ImageKit for image optimization. It includes a clean UI, an admin dashboard, and full CRUD functionality.

Tech Stack:

- Frontend: React, Tailwind CSS
- Backend: Node.js, Express
- Database: MongoDB
- APIs: Google Gemini API, ImageKit API

Live: <https://quick-blog-natnael.vercel.app/>

GitHub: <https://github.com/natitam1/QuickBlog-Natnael>

Bookworm – Cross-Platform Full-Stack Book App

A cross-platform full-stack book application that runs on web, Android, and iOS using a single codebase — built entirely with free and open-source tools. Users can authenticate, add books, manage their collection, and browse an infinite scrolling feed with multiple themes.

Tech Stack:

- Frontend: React Native, Expo
- Backend: Node.js, Express
- Database: MongoDB
- Auth & Media: JWT, Cloudinary

GitHub: <https://github.com/natitam1/QuickBlog-Natnael>

Other Projects: <https://github.com/natitam1> or <https://nati-works.vercel.app/>

EDUCATION

Addis Ababa University – Bachelor's in Computer Science