Raif Karani

Software Engineer | Full Stack Developer

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SUMMARY

Software engineer and computer science graduate who ships full-stack products end to end: React and Next.js front ends; Python, Node.js and Java back ends; PostgreSQL, MySQL, MongoDB and Redis; Docker, CI/CD and automated tests through to release.

EDUCATION

Visvesvaraya Technological University (VTU), Karnataka 2022 - 2026

Bachelor of Engineering (B.E.) - Computer Science and Engineering CGPA: 7.9 / 10

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Operating Systems, Networks

PROJECTS

CodeLens - AI Code Reviewer: Web Dashboard, Desktop App and GitHub App **Live** | **Code**

Python, FastAPI, Celery, Redis, PostgreSQL, Next.js 16, React 19, TypeScript, Electron, Docker, GitHub Actions, Playwright

- Designed a multi-service backend (FastAPI REST API, Celery workers on Redis queues, a GitHub poller, PostgreSQL) that reviews pull requests with a local LLM and posts inline comments about 40 seconds after a push.
- Built a Next.js 16 / React 19 dashboard with a live event timeline and a code-graph view; 900+ tests in CI, incl. Playwright end-to-end and WCAG 2.2 AA accessibility checks.
- Shipped a Windows desktop app (Electron + Docker Compose): a setup wizard, a supervisor that restarts failed services, consent-based auto-updates and a clean uninstaller, released through a GitHub Actions pipeline (v0.1.1).
- Fixed a serverless connection-limit outage on the live demo (transaction pooling) and cut DB latency from 1.2 s to 9 ms.

Rchat - Real-Time Chat Platform **Live**

React 19, Vite, Tailwind CSS, Node.js, Express 5, MongoDB (Mongoose), Socket.IO, JWT, Cloudinary, Resend, Vercel

- Built a full-stack chat app with real-time 1:1 messaging, online presence, unread counters and image sharing over authenticated WebSockets.
- Hardened it for the public internet: email verification with HMAC-hashed codes and atomic attempt limits, per-route rate limiting shared across serverless instances, CSP headers, NoSQL-injection-safe input validation; no axe-core accessibility violations.

SprintFlow - Project Management App **Code**

React, TypeScript, Express, Vite, Tailwind CSS, Radix UI, TanStack Query, Zod, PostgreSQL, Vitest

- Built a project manager with JWT auth and role-based access control (admin, manager, developer) enforced on client and server, project and task CRUD, a drag-and-drop Kanban board and a live metrics dashboard, over a Zod-validated REST API with Vitest tests.

LinkedOut - Reverse-Hiring Career Platform *(Collaborative Project)* **Live** | **Code**

Next.js 15, React 19, NestJS, TypeScript, PostgreSQL (Supabase), Drizzle ORM, Docker, Turborepo, GitHub Actions

- Co-built an employee-first hiring platform (Turborepo monorepo: Next.js + NestJS, 300+ Jest tests) with a 9-stage hiring pipeline, custom JWT auth with rotating refresh tokens, per-IP rate limiting and Row Level Security, deployed with GitHub Actions.

FashionStore - Java E-Commerce Web App **Code**

Java 21, Jakarta Servlets, JDBC, MySQL, Maven, Apache Tomcat, HTML, CSS, JavaScript

- Built a servlet-based store in an MVC/DAO architecture: product catalog with sizes and variants, session auth guarded by a servlet filter, cart, checkout and order history over MySQL.

QueryCraft - AI-Powered SQL/NoSQL Query Generator **Code**

Next.js 15, React 19, TypeScript, Node.js, Express, PostgreSQL, MySQL, MongoDB, Neo4j, Gemini / OpenRouter / Ollama

- Built a natural-language query engine that generates and runs queries on 5 databases (PostgreSQL, MySQL, SQLite, MongoDB, Neo4j) across 3 LLM providers, behind 12 REST endpoints with JWT and bcrypt auth, rate limiting and Helmet headers.

EXPERIENCE

Tap Academy Jan 2026 - Jul 2026

Software Engineering Intern

- Completed industry-oriented Java full-stack training (core Java, OOP, JDBC, Servlets/JSP, SQL, front-end), applying data structures, algorithms and database design in hands-on builds with MVC practices.

Golden Bird Education Feb 2025 - May 2025

Android & Web Development Intern

- Built 3 production-ready mini-applications with Firebase and the MERN stack (REST APIs, secure auth) in a 5-member Agile team, and reduced Android network latency by 25% via caching and optimized data fetching.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, C/C++, HTML, CSS

Frontend: React, Next.js, Tailwind CSS, Vite, Radix UI, TanStack Query, Electron

Backend: Node.js, Express.js, NestJS, FastAPI, Celery, Java Servlets/JSP, JDBC, REST APIs, WebSockets (Socket.IO), JWT auth

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Supabase, Drizzle ORM, SQLAlchemy, Mongoose

DevOps & Testing: Git, Docker, Docker Compose, GitHub Actions, CI/CD, Linux, Vercel, Railway, Cloudflare, AWS, pytest, Jest, Vitest, Playwright, Postman

Concepts: Data Structures & Algorithms, OOP, System Design, Microservices, Unit Testing, Agile/Scrum, Accessibility (WCAG)

AI: LLM integration, RAG, Ollama, prompt engineering

CERTIFICATIONS

Full Stack Web Development Specialization, Coursera (Jul 2024); Build Your Own Generative AI Model, NxtWave (Oct 2024)