Nihal Sheikh

Full Stack Engineer | Python, TypeScript, React, Node.js, FastAPI
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Summary

Full Stack Engineer (B.Tech, Computer Engineering) with professional experience developing RESTful APIs, optimizing relational database performance and building responsive React interfaces. Builds end-to-end web applications across Python (FastAPI) and TypeScript/Node.js (Express, Next.js) stacks with PostgreSQL, MongoDB and Redis, JWT authentication, real-time messaging and LLM API integration. Strong in API design, debugging and documentation, and in Agile practices such as code reviews and sprint delivery.

Technical Skills

Languages: Python, TypeScript, JavaScript (ES6+), SQL, Bash
Frontend: React, Next.js, HTML5, CSS3, Vite, Tailwind CSS, Responsive Design
Backend & APIs: FastAPI, Node.js, Express, Bun, REST APIs, JWT Authentication, Pydantic, Zod, Asynchronous Programming
Databases: PostgreSQL, MongoDB, Redis, SQLAlchemy ORM, Schema Design, Query Optimization, Indexing
AI Integration: Google Gemini API
Tools & Practices: Git, GitHub, Docker, Linux/Ubuntu, Vercel, Render, Agile/Scrum, Code Reviews, API Documentation (OpenAPI)

Experience

Software Developer Intern Jul 2023 – Dec 2023
SoftTheNext *Pune, India*

- Developed modular RESTful API services in Python, standardizing JSON request schemas and payload validation across 4 internal web workflows.
- Reduced API latency by 25% by optimizing slow relational database queries with indexing and ORM prefetching.
- Built 15+ responsive React components with UI designers and helped debug and resolve front-end to back-end integration defects.
- Participated in peer code reviews and bi-weekly Agile Scrum sprints; wrote API documentation and testing guidelines that helped new engineers onboard.

Projects

Narra – Full-Stack Blogging Platform | *FastAPI, PostgreSQL, React 19, TypeScript* Live Demo | GitHub

- Designed a REST API with 11 endpoints using FastAPI, SQLAlchemy ORM and PostgreSQL, with Pydantic request/response validation and auto-generated OpenAPI documentation.
- Secured the API with JWT authentication, bcrypt password hashing, per-IP rate limiting (SlowAPI), and ownership-based authorization so only a post's author can edit or delete it.
- Built the React 19 and TypeScript frontend (Vite, Tailwind CSS 4) with search, pagination, protected routes and light/dark themes; deployed on Vercel.

Habiko – AI-Powered Habit Tracker | *React, TypeScript, Express, MongoDB, Gemini API* Live Demo | GitHub

- Developed a full-stack habit tracker: React and TypeScript frontend (Vite), Express REST API on Bun with MongoDB and JWT authentication, streak calculation, and a 90-day heatmap; deployed on Vercel and Render.
- Integrated the Google Gemini API to deliver 5 AI features: morning motivation, habit recommendations, streak-recovery plans, weekly reports, and a chat that answers questions about the user's own habit history.

Realtime Chat – Private Self-Destructing Chat | *Next.js, TypeScript, Redis, Bun* Live Demo | GitHub

- Built a two-person ephemeral chat where rooms and messages expire after 10 minutes, using Upstash Redis TTLs synchronized across all room keys so data is deleted together.
- Delivered real-time message sync with Upstash Realtime and optimistic UI updates for instant feedback.
- Enforced the two-user limit with HTTP-only cookie tokens in Next.js middleware and Zod validation.

Education

G.H. Raisoni College of Engineering and Management Pune, India
Bachelor of Technology in Computer Engineering, Savitribai Phule Pune University *Graduated 2024*
Harvard University (CS50) Online
CS50's Introduction to Programming with Python *2026*