

RAHUL SHAH

Backend-Focused Full-Stack Developer | Python & FastAPI

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SUMMARY

B.Tech Computer Science undergraduate with hands-on experience designing and deploying full-stack web applications using Python, FastAPI, JavaScript, and SQL/NoSQL databases. Built and shipped 2 independent projects covering REST API development, CRUD-based data systems, and database design, with deployment experience across cloud platforms (Render, Railway, Vercel, Netlify) and a self-managed DigitalOcean VPS. Currently expanding into Machine Learning to build AI-powered applications.

EDUCATION

Hooghly Engineering And Technology College (2023 - 2027) - Ongoing

B.Tech in Computer Science Engineering | YGPA: 7.78

Jawahar Navodaya Vidyalaya, Dihibagnan, Hooghly (2016 - 2023)

Class 10th: 83.8% (2021) | Class 12th: 75.2% (2023)

PROJECTS

Student Management System [[view](#)]

- Engineered a desktop student management system in Python (CustomTkinter/Tkinter) with full CRUD operations backed by SQLite3.
- Implemented CSV import/export to streamline bulk student record handling.
- Built search, filtering, and analytics features to let users query and summarize student data on demand.

Tech Stack: CustomTkinter, Tkinter, Collections, SQLite3

URL Shortener (In Progress) [[view](#)]

- Architecting a public-facing URL shortener API with FastAPI and Pydantic for request/response validation.
- Designing a relational schema (PostgreSQL) to persist and resolve shortened links efficiently.
- Building server-rendered pages with Jinja2 and preparing deployment on a self-managed DigitalOcean VPS.

Tech Stack: FastAPI, Pydantic, PostgreSQL, Jinja2, DigitalOcean VPS

TECHNICAL SKILLS

Languages: Python, C, JavaScript

Frontend: HTML, CSS, Bootstrap, Tailwind CSS

Backend & Frameworks: Node.js, FastAPI, Tkinter, jQuery

Databases: MySQL, MongoDB, SQLite3, Supabase

Version Control: Git, GitHub (branching & pull request workflows)

AI/ML Platforms: Kaggle, Hugging Face

Cloud & Deployment: Hostinger, GitHub Pages, Render, Railway, Vercel, Netlify, DigitalOcean VPS

CERTIFICATIONS & LICENSES

Machine Learning — Educative | [in progress]

Python Programming — Udemy | [July -2025]