

RISHAVDEEP SINGH

Backend & AI Engineer

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SUMMARY

BTech CSE student (2023–2027) with hands-on experience building production-grade backend systems and AI-powered applications. Proficient in FastAPI, Spring Boot, Docker, PostgreSQL, and Groq LLMs. Shipped multiple deployed full-stack projects with CI/CD pipelines via GitHub Actions. Contributor to FastAPI open-source docs (Hindi translation). Actively grinding Striver's A2Z DSA sheet — targeting backend/AI engineering internships.

EXPERIENCE

Open Source — FastAPI · *Hindi Documentation Contributor*

Remote · 2024

- Translated FastAPI official documentation to Hindi as part of PR #15737 on the fastapi/fastapi GitHub repository.
- Contribution recognized by maintainer YuriyMotov via comment on merged PR #15554; translation credited in the project.
- One of the few student contributors to a top-10 Python framework with 70k+ GitHub stars.

emmabostian/developer-portfolios · *Open Source Contributor*

Remote · 2024

- Merged PR #3841 — added personal portfolio to the curated list of 900+ developer portfolios.

PROJECTS

VoidLedger — Smart Expense Tracker

Spring Boot · FastAPI · React+Vite · MariaDB · Docker · GitHub Actions

- Three-service architecture: Spring Boot REST backend, FastAPI AI insights service, React+Vite frontend — all fully Dockerized.
- CI/CD pipelines for all 3 repos via GitHub Actions; deployed on Render (backend + AI service) and Vercel (frontend).
- AI service provides natural language expense analysis using Groq LLMs; migrated DB to Neon PostgreSQL for cloud hosting.
- Live at voidledger.vercel.app

Codebase Onboarder

FastAPI · Groq · React · GitHub API · Vercel · Render

- AI tool that accepts any GitHub repo URL and auto-generates a structured onboarding doc + interactive chat for new contributors.
- GitHub API integration for repo content fetching; Groq LLM for doc generation; React frontend with typing indicator and auto-scroll.
- Deployed: codebase-onboarder.vercel.app (frontend) · codebase-onboarder.onrender.com (backend)

Code Review Bot

FastAPI · Groq · GitHub Webhooks · Railway

- Automated bot that listens to GitHub PR webhook events and posts AI-generated code review comments directly on PRs.
- Deployed on Railway at codebot-voidirl.up.railway.app; uses LLaMA 3.3-70b for contextual code analysis.

Developer Portfolio

HTML · CSS · JS · Vercel

- Gold & White themed portfolio with dark mode toggle, filter tabs (All/Full-Stack/AI/DevOps), scroll-reveal animations, and card tilt/parallax effects.
- Live at v0idrsh.vercel.app — also listed in emmabostian/developer-portfolios (900+ devs curated list).

TECHNICAL SKILLS

Languages	Python, Java, C++, JavaScript
Frameworks	FastAPI, Spring Boot, React (Vite)
Databases	PostgreSQL, MariaDB, Neon (cloud Postgres)
DevOps	Docker, GitHub Actions CI/CD, Linux (Arch), Nginx, Render, Vercel, Railway
AI / LLMs	Groq API, LLaMA 3.3-70b-versatile, Prompt Engineering
Other	Git, REST APIs, JWT Auth, GitHub Webhooks, Neovim, Zsh

EDUCATION

Sri Sai College of Engineering & Technology ·

Pathankot, India · 2023 – 2027

BTech — Computer Science & Engineering

- Actively building projects alongside coursework to compensate for college brand with a strong portfolio and open-source contributions.

DSA & COMPETITIVE PROGRAMMING

Actively grinding **Striver's A2Z DSA Sheet** in C++ on LeetCode.

Topics completed: Arrays, Sorting, Binary Search, Prefix Sums, Sliding Window, Two Pointers, Merge Intervals, Matrix problems, Subarrays, Hashing.

Repo: github.com/voidirl/leetcode-solutions