

Farhan Rahaman

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Summary

Final year B.Tech CSE undergrad with experience building and deploying full-stack web applications. Comfortable with backend development in Python using the Flask framework, and familiar with the full development lifecycle including Docker, CI/CD, and Cloud Deployment.

Education

University of Kalyani

Nov. 2022 – July 2026 (Expected)

Bachelor of Technology in Computer Science and Engineering

Kalyani, Nadia

- GPA: **9.36** (Last 5 Semesters)

Certificates

- **Advanced Distributed Systems** | NPTEL (IIT Madras) | 2025
- **CS50x** Introduction to Computer Science | Harvard University (edX) | 2022

Experience

JECAPrep.in (Mock Test Platform)

Sept – Oct 2025

Co-Founder & Full-Stack Developer

Technologies: Flask, PostgreSQL, Caddy, Google OAuth, Razorpay

- Led the entire technical development in a 4-person team, launching a mock test platform that acquired 13 paying customers and generated ₹1,600+ in revenue over a 3-week launch.
- Integrated Google OAuth for user authentication and Razorpay for payments, and implemented server-side auto-save across two test types – enabling users to resume interrupted tests.
- Built the complete operational backend, including a comprehensive admin panel, a CLI for bulk test ingestion, and secured paid content with Caddy using the X-Accel-Redirect pattern.

Projects

Voyage Fest Logistics Backend | *Flask, PostgreSQL, GCP, CI/CD* | [GitHub](#)

- Built and deployed a logistics backend that managed ₹1.2L+ in contributions, streamlined operations for 120+ attendees, and facilitated a transparent post-event financial audit.
- Implemented the end-to-end system: data ingestion via Google Sheets API, an admin dashboard for payment verification, and a QR-based booth page for 150+ on-site item dispatches.
- Automated all attendee communications – updating static profile pages on Netlify via GitHub Actions and sending notifications via a decoupled whatsapp-web.js worker.

Official Website & CMS | *Flask, PostgreSQL, Docker, CI/CD, Monitoring* | [Testing Link](#)

For the Dept. of CSE, University of Kalyani

- Building the new official department website in consultation with the Head of Department and faculty to define features and requirements (ongoing development).
- Developed a content management backend with a declarative RBAC system, featuring image optimization, drag-and-drop content reordering, and rich text editor integration.
- Automated deployments with Docker and GitHub Actions, implemented backups of content uploads and database to Google Drive, and configured alerts for site uptime and backup failures.

SocketPoll (Real-time Poll App) | *FastAPI, React, MongoDB, WebSockets* | [GitHub](#)

- Developed a full-stack, real-time polling application with FastAPI and React, featuring live result updates via WebSockets, multiple-choice question support, and configurable voting durations.
- Implemented bot and abuse prevention by integrating Cloudflare Turnstile for captcha-less verification and using browser fingerprinting to deter duplicate votes.

Skills

Languages: Python, SQL, JavaScript, C

Frameworks: Flask, FastAPI, SQLAlchemy (PostgreSQL, MySQL), Motor (MongoDB), React

Tools: Git, Docker, Docker Compose, GitHub Actions (CI/CD), Linux/VPS, Nginx/Caddy