

# MINHAJ SHAIKH

## Software Engineer

+919076246374 • shaikhminhaj8850@gmail.com • <https://www.linkedin.com/in/minhaj-sk/>  
• <https://github.com/Minhajshaikh321> • Mumbai

## Summary

Software Engineer with 2 years of hands-on experience in backend and full-stack development, working with Python, Django, Flask, DRF, FastAPI, and MySQL. Proficient in building secure RESTful APIs, designing database schemas, and developing full-stack applications using HTML, CSS, JS, and Angular. Recently built Gen AI-based applications integrating OpenAI for chatbot and image generation. Adept at writing clean code, optimizing performance, and delivering production-ready systems using modern frameworks and tools.

## Skills

### Programming & Frameworks:

Python | Django | Flask | Django Rest Framework · Restful API | Fast API · OpenAI API | Gen AI · DSA | OOPS

### Databases & Visualization:

MySQL | PostgreSQL · SQLAlchemy | ORM | Alembic · Matplotlib | Pandas

### AI Tools:

Prompt Engineering · ChatGPT · Git Hub| Copilot · Perplexity

### DevOps & Deployment:

Docker · Linux · Nginx · Gunicorn · AWS

### Version Control & Collaboration:

Git | GitHub · Bitbucket | Sourcetree · Jira | Agile

### Frontend & Desktop App:

HTML | CSS · Java Script | Angular · PyQt5

### Soft Skills:

Problem-Solving · Communication · Teamwork · Adaptability · Collaboration · Self-Motivation

## Experience



### Point Pi

Software Engineer

07/2023 - 07/2025

- Developed and deployed RESTful APIs using Django and Flask, integrating Z-Wave IoT protocol and MQTT messaging for smart home automation.
- Created a PyQt5-based thermostat app with interactive heat/cool controls, enhancing user control efficiency by 30%.
- Optimized MySQL queries and API endpoints, reducing backend latency by 25% and improving scalability using Docker, Linux, and Nginx.
- Collaborated with cross-functional teams in Agile sprints, managing tasks via Jira boards to achieve 90% on-time delivery.

## Projects

### Z Flask Wave - Smart Home Integration

IoT Protocols | Flask, Z-Wave, MQTT

- Engineered Z-Wave protocol integration in Flask, enabling secure, seamless communications between smart home devices.
- Built device management APIs (switches, sensors, actuators, locks) ensuring 99% reliability and low-latency.
- Executed logging, error handling, and monitoring, reducing troubleshooting time.

### Bridging Education System

Education APIs | Flask, Angular

- Designed and implemented Flask REST APIs for handling financial data and document management for scholarships.
- Improved system security by {25%} by creating JWT-authenticated endpoints and collaborating with {3} Angular frontend teams.

## Projects

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### GenAI Studio – Text & Image Generation with OpenAI

Generative AI | Flask, OpenAI API, Prompt Engineering

- Built a chatbot with GPT-4o-mini for real-time responses and automated text generation using prompt tuning.
- Integrated GPT-image-1-mini for text-to-image generation with refined prompts to improve visual accuracy.

### Django News with Celery and Gmail

Automation | Django, Celery, Gmail API

- Applied Celery tasks to automate workflows, reducing manual effort by 30%.
- Integrated Gmail API to send personalized news fetch, process, and deliver curated updates.

### System Design Utilities – URL Shortener & FastAPI Middleware

LLD & Backend Architecture / FastAPI, Python, Middleware, Logging

- Designed a scalable URL Shortener service with efficient database schema and hashing logic, ensuring unique short links and fast retrieval.
- Implemented rate-limiting middleware in FastAPI to control request flow, prevent abuse, and maintain system reliability under high traffic.
- Showcased LLD and system design principles by combining modular architecture, middleware patterns, and fault-tolerant backend utilities.

### Survey Form Application

Full-Stack Development | Django, Matplotlib

- Increased survey completion rate through developing a template-based app with dynamic questions and unique form IDs.
- Integrated Matplotlib to visualize survey results with clear graphical insights.

## Education

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### Sangai International University

Bachelor of Computer Applications (BCA) | CGPA: **6.8** / 10

### Maharashtra State Board

HSC (Science) | CGPA: **7.0** / 10

### Maharashtra State Board

SSC | CGPA: **8.0** / 10

## Certification

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### Building Generative AI-powered apps with Python — Great Learning

[SQL](#) — Test Dome

[Django](#) — Cutshort

[JavaScript](#) — Super Simple Dev

## Volunteering

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### Mission Awareness Foundation

Member

2022 - Present

Our foundation supports students and educators through scholarships, resources, and mentorships. Bridge opportunity gaps for underserved communities, enhancing digital education and skill development. By networking mentors and alumni, we guide and inspire future generations.