

Pulakesh Mondal

+91-7889113096 | pulak4467@gmail.com | [LinkedIn](#) | [GitHub](#) | [Website](#)

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, JS

Databases: PostgreSQL, MongoDB, Redis, SQLite

Backend Development: FastAPI, REST API Design, Authentication, Caching, Design Patterns

Cloud & Developer Tools: Git, Docker, Postman, AWS, OCI, Linux, CI/CD basics

AI/ML Interests: Large Language Models, Agentic Systems, LLM Security

EXPERIENCE

Sciencedomain International

Sep 2024 – Apr 2025

Academic Peer Reviewer

Kolkata, IN

- Reviewed Computer Science research manuscripts as part of the academic publishing process, evaluating technical accuracy, research approach, originality, and overall scholarly quality.
- Analyzed research work across multiple areas of Computer Science and gained exposure to emerging research ideas and evolving technical domains.
- Applied critical analysis and technical judgment to assess research contributions and provide academic feedback.
- Gained experience relevant to scholarly publication, technical documentation and research evaluation.

PROJECTS

DockerBrain - Containers Monitoring Tool | *Python, SQLite, Docker API, Textual*

[View](#) | [Github Repo](#)

- Developed a Python-based CLI tool that eliminates context-switching and shows realtime Docker metrics in an interactive terminal dashboard.
- Added smart diagnostic feature that uses LLM to read container logs, identify errors and suggest fixes for containers or Dockerfile-related issues.
- Used SQLite to store metrics locally for long-term tracking, also offers Dockerfile templates for popular tech stacks to speed up project setup.
- Published the project as a Python package on PyPI to make it publicly available for other developers to use.

RhythmSpace | *FastAPI, Websockets, PostgreSQL, Youtube Music*

[Live](#) | [Gitlab Repo](#)

- Developed a music listening platform where users create or join rooms and listen to songs together in real time.
- Built the backend with FastAPI and PostgreSQL to manage users, rooms, queues and WebSocket events, with YouTube Music for song search and discovery.
- Implemented secure authentication and access, using Google OAuth 2.1, JWT sessions with refresh token rotation, rate limiting on auth and search endpoints, and a centralized WebSocket manager for handling room-related events.
- Deployed the frontend on Cloudflare Pages and backend on Render (Temporary), making the platform easily accessible for all.

EDUCATION

Lovely Professional University

Punjab, IN

Master of Computer Applications

Sep. 2022 – June 2024

Sonarpur Mahavidyalaya

Kolkata, IN

B.Sc. (Hons.) Computer Science

Apr. 2019 – Feb. 2022

RESEARCH INTERESTS

I am interested in research areas like **artificial intelligence and software security**, particularly how LLMs can make rule based software systems smarter and developer tools that solve real engineering problems.

CERTIFICATIONS

- Google Cloud Gen AI Academy APAC Edition 2026 ([View](#))
- Oracle Cloud Infrastructure Certified AI Foundations Associate ([View](#))
- AWS Certified Solution Architect Associate by GFG ([View](#))