

Rownak Mazumder

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EDUCATION

Techno India University <i>Bachelor of Technology in Computer Science, AI-ML</i>	West Bengal, India 2021 – 2025
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TECHNICAL SKILLS

Languages: Python, Java, SQL (Postgres), Dart, JavaScript, HTML/CSS Frameworks: FastAPI, Django, Flutter, Angular, PHP Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio Libraries: OpenCV, Pandas, NumPy, Matplotlib, ReportLab AI Frameworks: Langchain, LlamaIndex, Unsloth

EXPERIENCE

Lead Engineer <i>Rezolve AI</i>	December 2025 – Present (Full Time) India
- Lead the design and development of scalable enterprise AI platforms, focusing on Voice AI, conversational agents, and Agentic AI solutions with an emphasis on low-latency performance and cost-efficient architecture. - Architect and develop real-time Voice AI systems using Python, FastAPI, Pipecat, LangGraph, LiveKit, WebRTC, Azure Speech Services, and neural text-to-speech technologies. - Design and implement modular, multi-agent AI architectures integrating LLMs, tool calling, retrieval-augmented generation (RAG), and external services to power conversational experiences across retail and hospitality use cases. - Lead backend architecture and service orchestration across Django REST Framework, FastAPI, PostgreSQL, MongoDB, Redis, and asynchronous processing systems, ensuring scalable and maintainable production services. - Build and optimize real-time voice pipelines, addressing latency, speech recognition accuracy, audio streaming reliability, interruption handling, and natural conversational interactions. - Drive cloud-native deployment and infrastructure initiatives using Microsoft Azure, Azure Kubernetes Service (AKS), Docker, Kubernetes, Helm, and CI/CD pipelines to improve deployment reliability and operational efficiency. - Develop enterprise AI integrations, reusable SDKs, and MCP-based connectivity to enable AI agents to interact with external tools, business systems, and customer platforms securely. - Collaborate with cross-functional engineering, product, and client-facing teams to translate business requirements into production-ready AI solutions, prioritizing reliability, scalability, and total cost of ownership.	
Software Development Engineer <i>Qtanea Solutions Pvt Ltd</i>	October 2024 – November 2025 Pune – Mumbai, India
- Developed and maintained Django-based backend services and REST APIs, collaborating with frontend teams to deliver integrated application features. - Designed database schemas, managed migrations, and optimized queries to improve application reliability and performance. - Implemented secure, reusable, and testable backend components for healthcare and research management applications.	
MLOps Engineer <i>PrediQt Business Solutions Pvt. Ltd.</i>	June 2023 – October 2024 (Full Time – Hybrid) West Bengal, India
- Engineered full-stack applications using Flutter, GetX, and Django to support AI-powered recommendation systems, chatbots, and RAG applications. - Collaborated with data scientists and ML engineers to deploy and manage machine learning models across cloud and containerized environments. - Built automation workflows for model packaging, versioning, deployment, monitoring, and infrastructure management. - Designed scalable cloud infrastructure and CI/CD workflows to improve the reliability and efficiency of machine learning deployments.	
Senior Backend Developer <i>Information Technology Training Institute of Quebec</i>	August 2021 – January 2023 (Freelance) Montreal, Canada
- Developed Django-based backend applications, REST APIs, and web services, coordinating with frontend developers and stakeholders to deliver scalable solutions. - Designed and maintained database schemas, migrations, and optimized queries to support application performance and data integrity.	
PROJECTS	
AI Based Doctor Appointment Booking Application <i>Flutter, FastAPI, MongoDB, Github Actions</i>	June 2024
Developed Cross Functional UI Components : Created versatile and reusable UI components for an Android-based application using Flutter. AI Integration: Incorporated AI to enhance the appointment booking process, improving user experience and efficiency Continuous integration and deployment: Employed GitHub Actions for automated testing, deployment, and continuous integration, ensuring a seamless development workflow.	
Nivaaran AI <i>Python, Django, YOLO, OpenCV, PostgreSQL, Flutter, AWS, Nginx</i>	August 2023

- **Developed a full-stack website & app** that serves as a One Stop solution for detecting various Crimes using CCTV Feeds and generating report with Django serving a REST API with Flutter as the frontend
- **Implemented Violence , Intrusion and Weapon Detection** from Live CCTV Feed using RTMP
- **Real-Time Notification** for any suspicious activities on the cameras using Websocket Connections
- Used Redis for asynchronous tasks

Research Information Management System | *Django, PostgreSQL, Pix2Struct*

April 2023

- **Developed a streamlined system for journal information retrieval:** Leveraged Django for the backend and PostgreSQL for the database to create a robust and efficient system.
- **One-click journal information retrieval:** Implemented a feature that allows users to easily fetch comprehensive journal information using either the International Standard Serial Number (ISSN) or the Digital Object Identifier (DOI). This significantly reduces the time and effort required to gather and verify journal data, enhancing the efficiency of research management.
- **Automated journal information:** Developed an automated solution for one-click fetching of journal information using ISSN or DOIs.
- **AI Certificate Detection :** Utilized machine learning to detect and extract important details from certificates, further streamlining the process.