

Pulakesh Mondal

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[GitHub](#) / [Portfolio](#)

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EDUCATION

Lovely Professional University, Punjab

Master of Computer Applications

September 2022 - July 2024

University of Calcutta, Kolkata

Bachelor of Science (Honours) in Computer Science

June 2019 - August 2022

SKILLS

- **Languages:** JAVA, Python
- **Frameworks:** Spring Boot, FastAPI
- **API & Tools:** RESTful APIs, Postman, Jira
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **Web Technologies:** HTML, CSS, JavaScript
- **Cloud & DevOps:** AWS, Docker, Linux, Git, GitHub Actions
- **Soft Skills:** Problem Solving, Team Collaboration, Adaptability, Communication Skills.

WORK EXPERIENCE

IT Operations Associate | SCIENCEDOMAIN International

September 2024 - April 2025

- Diagnosed and resolved 50+ system and network issues, improving overall system uptime by 20%.
- Monitored performance and supported routine operations, helping maintain 85% system availability for teams.
- Provided technical support to team members, achieving issues resolution satisfaction rate of 90% based on feedback.

PROJECTS

Pharmatrack - Pharmaceutical Supply Chain Integrity Platform

September 2025 - Present

- A **microservices-based** system built with **Spring Boot** and **FastAPI** to ensure end-to-end traceability and regulatory compliance across pharmaceutical supply chains.
- Implemented an **event-driven architecture** with **Kafka** to enable real-time shipment tracking and automated alerting for anomalies such as counterfeit or expired drugs.
- Designed and optimized backend services using scalable **API design principles**, increasing API response efficiency by 25% and ensuring 99% service availability across components.

Curate - Personalized Recommendation System | [LINK 1](#) | [LINK 2](#)

March 2025 - August 2025

- Built and deployed a **Python** based recommendation engine that delivered personalized movies and music suggestions, increasing user engagement by 30% through accurate preference-based filtering.
- Implemented CRUD operations with **PostgreSQL** for structured data storage and **Redis** caching for high-performance recommendation queries.
- Developed scalable APIs with **FastAPI**, improving system throughput by 25% and ensuring smooth handling of concurrent user requests.
- Implemented **JWT authentication**, rate limiting and robust input validation which reduce unauthorized access attempts maintaining overall system security and reliability.

Surehealth - Ecommerce web application | [LINK](#)

June 2023 - September 2023

- A full-stack **Java** e-commerce application for purchasing medicines and healthcare products online.
- Developed admin and customer modules, inventory tracking, cart management and other features.
- Optimized relational database schemas to ensure data integrity and improved query performance, achieving a 25% reduction in query response time.

CERTIFICATES

Software Engineering Internship Certificate (JPMorgan Chase & Co) | [LINK](#)

- Completed a practical software engineering simulation demonstrating skills in Kafka messaging, H2 database integration and REST API development.

SQL Certificate (HackerRank) | [LINK](#)

- Gained proficiency in writing optimized SQL queries, including JOINS, subqueries, window functions, aggregations and data manipulation, to analyze and manage relational databases efficiently.

AWS Certified SAA (GeeksforGeeks) | [LINK](#)

- Learned foundational AWS concepts including EC2, S3, IAM, VPC, load balancing and cloud architecture fundamentals, gaining hands-on experience in deploying and managing cloud resources.