

ANUBHOB DEY

B. Tech Student | Focused on Software Development and Machine Learning

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EDUCATION

University of Engineering and Management

B. Tech in Computer Science & Engineering (AI & ML) CGPA: 8.59/10

Kolkata, WB

August 2020 – present

B. D. M. International

Senior Secondary

Kolkata, WB

April 2020 - May 2022

Secondary

April 2018 - March 2020

INTERNSHIP EXPERIENCE

Data Engineer for AI Model Training | Legal Gini | Remote

January 2025 – June 2025

- Designed a web crawler using Python, Selenium achieving a 50% increase in efficiency for data mining.
- Engineered an automated data pipeline with parallel processing, boosting workflow speed by 500%.
- Deployed an AI agent to actively monitor workflow logs 24/7, providing instant feedback.
- Optimized vectorization and data upload to AWS S3 Buckets, accelerating model training.

PROJECTS

Enhanced School Bus Safety with GPS Tracking | TrackBees | Group Project

August 2024 – March 2025

- Developed a real-time GPS tracking system with 40ms latency, enhancing student safety.
- Integrated Google Cloud's scalable solutions to support 50+ simultaneous users reliably.
- Implemented end-to-end 256-bit encryption to safeguard sensitive student data.
- Built an AI-Agent driven monitoring system to deliver real-time notifications within 40ms.

Automated Web Scraping Pipeline

August 2024 - September 2024

- Architected a robust data pipeline with Selenium, Scrapy, and BeautifulSoup, ensuring 99.9% uptime and zero data loss.
- Streamlined data preprocessing, accelerating read operations by 10%.
- Developed AI models to bypass reCAPTCHA within 7 seconds for uninterrupted data extraction.
- Enhanced versatility by supporting multiple data formats: text, graphs, tables, and AI-summarized reports.

Blockchain-based Escrow Payment System | MidPay

January 2025 – Ongoing

- Engineered a decentralized escrow payment system by building a Python-based blockchain from scratch with proof-of-work, digital signatures, and smart verification protocols for secure multi-party transactions.
- Created a Flask web app featuring real-time account management, interactive dashboards, and transaction flow visualizations.
- Designed RESTful APIs using FastAPI with token-based authentication to enable seamless third-party payment integrations.

SKILLS SUMMARY

- Technical Skills:** Automation, Web Development, Software Development, Code Refactoring, Data Structures & Algorithms, Object-Oriented Design, Data Engineering, LangChain, Agent Development
- Programming Languages:** C, Java, Python, SQL, Unix
- Databases:** MongoDB, MySQL, Oracle, PostgreSQL
- Cloud Technologies:** Google Cloud Platform, Amazon AWS

CERTIFICATIONS

- CS50x: Harvard University's Introduction to Computer Science (June 2024)
- CS50p: Harvard University's Introduction to Python Programming (October 2024)
- Udemy: The Complete 2024 Web Development Bootcamp (November 2024)

LEADERSHIP EXPERIENCE, INTERESTS & AWARDS

- Mentored 50+ students as a Volunteer Teaching Assistant for *Shiksha Sabke Liye* NGO.
- Led fundraising efforts for climate action, supporting the Green (R)evolution Organization.
- Recognized as the “Tech Wizard of the Year” for outstanding innovation and leadership.
- Interests: Chess enthusiast; founded a local chess club for seniors.