ARUNODOY BANERJEE

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leetcode.com/u/Arunodoy_45 | portfolio

EDUCATION

Sikkim Manipal Institute of technology	Sikkim, Rangpo
Bachelor of technology, Computer Science(AI and ML)	*Aug. 2024 – May 2028*
Relevant Coursework	SMIT, Rangpo
Data Structures & Algorithms (advanced problem-solving focus),DBMS	

PROJECTS

Smart Waste Management AI System | *Python, FastAPI, AI/ML, React, PostgreSQL* 2025
- Developed an AI-powered waste classification system with confidence-aware recommendations to reduce recycling contamination in smart cities.
- Implemented multi-category waste segregation (Recyclable, Organic, Electronic, Hazardous, General) with real-time confidence scoring.
- Built a full-stack architecture using FastAPI and React, featuring user dashboards, driver verification workflows, and analytics tracking.
- Integrated image-based waste classification, JWT authentication, maps-based pickup tracking, and environmental impact analytics.
- Live Demo: wastifi.builddc3.tech
- Source Code (Local Setup): github.com/your-username/smart-waste-management-ai

AI Code Review Assistant | *Python, AI/LLMs, React, Azure* 2026
- Built an AI-powered code review assistant to help reviewers analyze pull requests and identify issues efficiently.
- Developed the system within a 3-week timeline, focusing on accuracy, usability, and fast feedback for developers.
- Integrated frontend and backend services and deployed the application on Microsoft Azure.
- Live Demo: yours-reviewer-buildc3.tech
- Source Code (Local Setup): github.com/Arunodoy18/ai-code-review-assistant

EXPERIENCE

Backend Developer (Project Based learning event)	Aug. 2025 - present
College-Initiated Projects	*Sikkim*

- Helped build backend logic for internal tools using REST APIs and basic database operations. Debugged issues by checking logs, API responses, and configuration files..
- Deployed cloud-native applications using Docker and Microsoft Azure Container Apps.
- Integrated frontend and backend services using RESTful APIs.

Backend developer (SMIT Tech fest)	Sep. 2025 – dec. 2025
College AI Summit Event	*Sikkim*

- Helped build and configure backend logic for internal systems and made sure everything ran smoothly.
- Helped identify and fix technical issues in internal systems reported by users.
- Assisted with routine system checks and fixes to keep internal systems running properly.

CERTIFICATIONS

- Spring Boot 4, Spring 7 & Hibernate for Beginners
- HP Certified AI for Beginners
- Drones for Environmental Science

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, n8n
Frameworks: Spring Boot,React, Node.js, FastAPI
Developer Tools: Git, Docker, Azure, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse
Libraries: pandas, NumPy