

# APRATIM DUTTA

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## EDUCATION

### Indian Institute of Engineering Science and Technology, Shibpur

Bachelor of Technology in Information Technology (CGPA: 8.39)

Dec 2021 – Jul 2025

West Bengal, India

### Hemsheela Model School, Durgapur

Higher Secondary School Examination (Class XII): 96.2%

Jun 2021

West Bengal, India

## EXPERIENCE

### Software Engineer | SiteMaster

Jul 2025 - Present

- Developed cross-platform mobile features using React Native including push notification handling, deep linking, and background event processing for real-time project updates.
- Engineered Excel data processing module with validation algorithms for bulk upload/download of materials, tasks, personnel, and financial records, streamlining data entry workflows.
- Optimized React application performance through React Query implementation, reducing API requests and decreasing load times by 35% across all modules.
- Implemented in-app navigation and state synchronization across modules, improving task tracking, approvals, and site activity workflows for field teams.
- Led cross-functional team of 5 developers while conducting peer code reviews and mentoring 3 junior developers in agile methodology and quality standards.

## PROJECTS

### Scaape Event Platform | Android | iOS

Jan - Apr 2025

- Developed social event discovery mobile app using React Native and Expo, connecting users with local activities through location-based matching. [scaape.app](#) 📄
- Integrated Razorpay payment gateway for secure transaction processing and Firebase RTDB for real-time group messaging functionality.
- Designed responsive UI components following Figma specifications with custom animations and gesture-based navigation.

### Heshel AI | AI-Powered Cooking Companion | Devpost | AppStore testflight link

2026

- Built an AI-powered mobile app that converts saved cooking inspiration (YouTube, screenshots, notes) into actionable meal decisions using ingredient recognition and recipe extraction pipelines.
- Developed a swipe-based recommendation system that suggests recipes based on available ingredients, dietary preferences, and missing ingredient gaps.
- Implemented AI pipelines using Python and FastAPI for ingredient detection, recipe parsing, and structured ingredient normalization across cuisines.
- Integrated subscription management using RevenueCat with a mobile frontend built in React Native and backend powered by PostgreSQL and Supabase.

## TECHNICAL SKILLS

- Programming Languages:** C++, Python, JavaScript, TypeScript, HTML, CSS, SQL
- Frameworks & Libraries:** React.js, React Native, Node.js, Express.js, Django REST Framework, React Query, Expo
- Tools & Platforms:** Firebase, MongoDB, Android Studio, Git, GitHub, Power BI, Razorpay API, VS Code
- Core Competencies:** Data Structures, Algorithms, Database Management, Object-Oriented Programming, Machine Learning, Agile Development

## ACHIEVEMENTS

- Selected among top 100 finalist teams from 2500+ participants in ODOO COMBAT 2024 Hackathon for Test Secure project. [Certificate](#) 📄
- Achieved 3-star rating on CodeChef (Max: 1731) and Specialist rating (1460) on Codeforces.
- Advanced to Stage 2 of Karnataka State Police DataThon 2024 with team Jan Rakshak for innovative crime prediction solution.
- Completed 800+ algorithmic challenges across multiple coding platforms including LeetCode, Codechef, Codeforces, GeeksforGeeks, and CodingNinjas.

## PROFILE LINKS

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- **GitHub:** [github.com/apru02](https://github.com/apru02)
- **LeetCode:** [leetcode.com/apru\\_02](https://leetcode.com/apru_02)
- **CodeChef:** [codechef.com/users/apru\\_2002](https://codechef.com/users/apru_2002)
- **Codeforces:** [codeforces.com/profile/apru\\_02](https://codeforces.com/profile/apru_02)