

# Apratim Dutta



apratim.tech



apru02



apratim-dutta



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## EXPERIENCE

### SITEMASTER | SOFTWARE DEVELOPMENT ENGINEER INTERN

Feb 2024 – Current | Kolkata, India

- Developed an Android application using React Native, scaling from 0 to **500+** MAU (Monthly Active Users)
- Integrated push notifications via Firebase Cloud Messaging, increasing user engagement by **45%**.
- Implemented and integrated REST API calls to facilitate seamless data communication between frontend and backend services, improving response time by **30%**
- Collaborated closely with the application testing and user experience teams to refine the UI based on direct feedback from end-users.

## PROJECTS

### EVENT MANAGEMENT DASHBOARD | REACT | NODEJS | FULLSTACK

2023 | [event-manager-dashboard.netlify.app](https://event-manager-dashboard.netlify.app)

- Developed a MERN stack application for creating, managing, and tracking events efficiently.
- Implemented features such as task checklists, collaboration tools, and meeting scheduling using Express.js.
- Enabled CRUD operations with MongoDB, allowing admins to add, edit, and delete event data seamlessly.
- Utilized WebSockets to implement real-time chat functionality, enabling seamless communication between event members.

### PREDICTIVE CRIME ANALYSIS | PYTHON | REACT | SCIKIT-LEARN | FAST-API

2024 | [github.com/apru02/KSP-DATATHON](https://github.com/apru02/KSP-DATATHON) | [Demonstration](#)

- Analyzed **500k+** Karnataka crime records(2016-24) with Python and Power BI, revealing spatial trends and socio-economic patterns.
- Conducted in-depth Exploratory Data Analysis (EDA) on crime types and demographics, uncovering **15+** key insights.
- Built a machine learning model to predict crime rates on an hourly basis and trigger alerts during high-risk periods, optimizing police beat deployment.

### TEST SECURE | NODEJS | REACT

2024 | [github.com/techlism/odoo\\_hackathon](https://github.com/techlism/odoo_hackathon)

- Designed a secure examination paper distribution system ensuring **100%** exam integrity and confidentiality.
- Implemented role-based authentication and authorization for **3** distinct roles: administrators, examiners, and invigilators.
- Utilized **AES-256 CTR** encryption for secure paper upload and management, including version control.

## ACHIEVEMENTS

- Secured a spot in the on-site final round of the ODOO COMBAT 2024 Hackathon for the project "Test Secure," ranking among the top **150** teams from a pool of **2500+** teams.
- Achieved a **3-star** rating on CodeChef (Highest Rating: **1731**) and a "Specialist" rank on Codeforces with a rating of **1460**.
- Solved over **700** problems across programming platforms including LeetCode, GeeksforGeeks, Coding Ninjas, CodeChef, and Codeforces.

## SKILLS

### PROGRAMMING

Proficient:

Python • SQL • CSS  
• HTML

Experienced:

Javascript • C++ •  
MongoDB

Familiar:

Java • TypeScript

### LIBRARIES/Frameworks

Node.js • React.js • React  
Native • Expo • Fast-API •  
Scikit-learn

### TOOLS/PLATFORMS

Git • Webpack • Firebase  
Postman • Docker

## EDUCATION

### IIST, SHIBPUR

BACHELOR'S IN INFORMATION  
TECHNOLOGY

Dec 2021 - Present | Kolkata, WB

CGPA: 8.38 / 10

## CODING PROFILES

LeetCode:

[leetcode.com/apru\\_02](https://leetcode.com/apru_02)

Codeforces: code-

[forces.com/profile/apru\\_02](https://forces.com/profile/apru_02)

CodeChef:

[codechef.com/users/apru\\_2002](https://codechef.com/users/apru_2002)