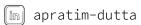
# **Apratim** Dutta



apratim.tech



apru02







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#### **EXPERIENCE**

**SITEMASTER** | SOFTWARE DEVELOPMENT ENGINEER INTERN

Feb 2024 - Current | Kolkata, India

- → Developed an Android application using React Native, enhancing mobile user experience for **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

- → 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.

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

- → 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

- → 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**

#### **IIEST, SHIBPUR**

BACHELOR'S IN INFORMATION TECHNOLOGY Dec 2021 - Present | Kolkata, WB CGPA: 8.38 / 10

## CODING PROFILES

leetcode.com/apru\_02

codeforces.com/apru\_02



codechef/apru\_2002