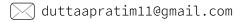
# **Apratim** Dutta



apratim.tech









# **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

- → 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 | 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

- → 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:

leetcode.com/apru\_02

Codeforces: code-

forces.com/profile/apru\_02

CodeChef:

codechef.com/users/apru\_2002