

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, 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

2023

- 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

2024

- 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

- 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.com/apru_02
-  codeforces.com/apru_02
-  codechef/apru_2002