

# SHUBHAYU MAJUMDAR

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## Education

### B.Tech in Computer Science (Artificial Intelligence and Machine Learning)

Nov 2020 – Present

Techno Main Saltlake

Kolkata, India

- First year with **9.68 CGPA**

## Key Skills

**Languages:** C, C++, Python, HTML/CSS, SQL

**Technologies/Frameworks:** PyTorch, FastAPI, Django, Flutter, Firebase, Linux, Google Cloud Platform, Heroku, Git & GitHub, REST API, MongoDB

## Experience

### Co-Head Technical Wing

Nov 2021 – Present

IIC, Techno Main Saltlake

Kolkata, India

- Led a team of engineers from **Front-end**, **Back-end**, and **DevOps** on projects of IIC across all phases of development.
- Proposed and remodeled existing projects with better system design to **improve scalability**.
- Guided the team members to use the version control system, **Git** to organize modifications and assign tasks.

### Back End Engineer

May 2021 – Nov 2021

IIC, Techno Main Saltlake

Kolkata, India

- Upgraded the back end of a health application using **Python**, **Cowin API**, and scrapers for updating the latest leads for COVID resources.
- *Major Improvements done:* Latency **Optimization** from "120" sec to "**15**" sec.
- Took ownership of building a **scalable** user management system for multiple upcoming IIC projects. Currently being used in **IIC Blog project**.

## Projects

### Envisage App | [App Store]

May 2022

- Built **full-stack mobile app** to help users and team to **register** and **manage** Envisage 2022
- Built with **Flutter 3**, **Firebase**, **Cashfree** for in-app payments
- Impact: Used in Envisage '22 with **1K+** users increasing **user engagement rate by 70%**

### Discord Study Bot | [Source Code]

March 2021

- Developed Discord bot for Study-Time based leaderboard system using **discord.py**
- Tech Involved: **Python**, **discord.py**, **MongoDB**, deployed on **Heroku**, etc
- Impact: Deployed in Kazuki Server of **IIT Hyderabad**

### Cowin Notifier | [Source Code]

May 2021

- Developed an application for sharing **Vaccine Slots** for 18+ age group using **Cowin Public API** and **Twitter API**.
- Tech Involved: **Python**, **Tweepy**, **Cowin Public APIs** and **Twitter API**, deployed on **Heroku**, etc
- Impact: Deployed during 2nd wave of COVID-19, posted more than **20,000 tweets**

### User Management App | [Source Code]

September 2021

- Built **scalable backend app** for User management with roles with **authenticated endpoints** using **cryptography algorithms**
- Tech Involved: **Python**, **REST API**, **FastAPI**, **MongoDB**, deployed on **Heroku**, etc
- Impact: Deployed with IIC Blog project. [\[Swagger UI\]](#)

## Achievements

- Secured Global **64th rank** in **Reply Code Challenge 2022 - Teen Edition**. [\[Certificate\]](#)
- Secured Global **182nd rank** and National **17th rank** in **Reply Code Challenge 2021 - Teen Edition**. [\[Certificate\]](#)
- **Reported bugs** on several websites of the **Indian Govt**, **Startups**, and published write-ups on **Medium**. [\[Medium\]](#)
- Recieved **Swiggy Bug Bounty Hall of Fame**. [\[Swiggy HOF\]](#)
- Secured **11 Google Cloud Skill badges**. [\[Badges\]](#)
- Got **Certified Network Security Specialist** from **ICSI, UK**. [\[Certificate\]](#)
- Conducted sessions for 100+ college students on **Cyber Security**, **Open Source contribution** related topics.