



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: Linux, Google Cloud Platform, Heroku, Git & GitHub, REST API, MongoDB, Django, FastAPI

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

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 **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**. [\[Medium\]](#)
- 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.