

Anish Roy

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SUMMARY

Software engineer skilled in C/C++, algorithms, and full-stack development with React, FastAPI, and PostgreSQL. Experienced in CI/CD, WebSockets, and agile workflows.

EDUCATION

- **Khulna University of Engineering and Technology** Khulna, Bangladesh
B.Sc. in Electronics and Communication Engineering; CGPA: 3.42/4.00 Jan. 2020 – Jul. 2025

TECHNICAL SKILLS

Languages: C, C++, Python — **Frontend:** React, Redux Toolkit — **Backend:** FastAPI, MongoDB, PostgreSQL — **DevOps & Tools:** Docker, Git, Github, GitHub Actions (CI/CD), SonarQube

EXPERIENCE

- **Learnathon 3.0 by Geeky Solutions** Remote
Trainee Participant December 2024 – May 2025
 - **Full-Stack Social Media Web App Development:** Collaborated in a team of three to Design and develop a fully functional social media web application from scratch using a Python-based stack
 - **Agile Collaboration & Peer Learning:** Contributed in a sprint-based agile environment. Gained hands-on experience with Git, GitHub workflows, and CI/CD deployment pipelines.
 - **Industry-Focused Skill Development:** Strengthened practical skills in RESTful API design, version control, and modular programming. Participated in mentor-led feedback loops and iterative improvement cycles.

PROJECTS

- **UConnect – University Community Platform (2025)** [\[GitHub\]](#):
A university-exclusive platform for research collaboration, academic networking, and real-time messaging.
Key Contributions:
 - Built secure user authentication and real-time messaging using **JWT** and **WebSockets**.
 - Integrated an **AI assistant** (“AskU”) powered by **Hugging Face** and **Google Gemini API**.
 - Designed dynamic features: **user profiles, friend system, posts, events, and research collaboration**.
 - Modeled **20+ PostgreSQL database schemas**; exposed **RESTful APIs** with **Swagger documentation**.
 - Automated **CI-based test coverage** and integrated **SonarQube** to maintain high code quality.
 - Followed **modular backend architecture**; managed sprints and issues using **GitHub**.
- **TaskMaster – Multithreaded Task Scheduler (2025)** [\[GitHub\]](#):
A terminal-based C++ app simulating OS-level task scheduling with multithreading.
Key Contributions:
 - Built a **priority-based scheduler** using **C++14** with **threads** and **mutexes**.
 - Implemented task **pause/resume/kill** with real-time CLI status.
 - Used **modular OOP design, CMake**, and added **unit tests**.

ACHIEVEMENTS

- **Trainee, Learnathon 3.0 (2025)** – Completed 20-week industry-backed full-stack bootcamp
- **Competitive Programming** – Solved 700+ problems on platforms like Codeforces, Atcoder, and Leetcode.
- **Vice President, KUET Math Club** – Led 3+ events, boosted participation by 40%
- **Executive Member, KUET Research Society** – Coordinated 3+ research meetups and workshops