

AMARNATH GHOSH

Kolkata, West Bengal

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EDUCATION

Sister Nivedita University, Kolkata

2022 – 2026

Bachelor of Computer Science and Engineering

Kolkata, West Bengal

Courses: Data Structures, Operating Systems, Computer Networks, Object Oriented Programming, Database Management System

EXPERIENCE

Employability.life [↗](#)

October 2025 – Present

Role - Software Developer Intern

Remote

- Engineered an **AI-driven meeting assistant** capable of **autonomously** joining virtual meetings on **BigBlueButton**, simulating human-like participation, and performing real-time interaction and observation.
- Implemented advanced audio intelligence pipelines to **remove background noise**, **identify individual speakers** and generate structured transcripts with timestamps and user mapping for enhanced meeting analytics.
- Collaborated on intelligent meeting automation systems integrating **NLP** and **speech technologies** to enable data extraction, **speaker sentiment analysis**, and participation tracking, contributing to scalable AI-driven collaboration tools .

Employability.life [↗](#)

September 2024 – November 2024

Role - Experiential Learner

Remote

- Developed expertise in **Cybersecurity** and **API testing** through a hands-on project focused on securing and validating **RESTful APIs**, ensuring robust protection and functionality
- Conducted comprehensive **API Testing** using **Postman** and **curl**, identifying vulnerabilities and optimizing endpoint performance to enhance system reliability.
- Proficiently utilized **Linux environments** for scripting, server configuration, and security testing, strengthening command-line skills and deepening system-level knowledge. .

SKILLS SUMMARY

Languages: C, C++, Python, JavaScript

Web Development & Frameworks : HTML, CSS, Bootstrap, Tailwind CSS, TypeScript, React.js, Node.js, Express.js, Next.js

Database : SQL, MySQL, PostgreSQL, MongoDB, Oracle

Tools: GitHub, VS Code, Postman, Firebase, MS Excel, Jupyter Notebook

AI/Automation: Gemini AI, OpenAI APIs

PROJECTS

Energy-IOT [↗](#) | Next.js , Firebase

Aug 2025 - Present

- Built a full-stack **IoT energy monitoring platform** with real-time current & voltage tracking using **NodeMCU** and **Firebase**, empowering users to optimize household electricity usage.
- Designed a responsive and modern dashboard with **Next.js 14 App Router**, **Tailwind CSS**, **shadcn/ui**, and **Lucide React**, delivering intuitive insights and remote appliance control.
- Implemented **automated energy alerts and usage analytics**, enabling proactive decisions to reduce energy waste and improve efficiency.

SheConnect [↗](#) | HTML, CSS, JavaScript, Firebase Authentication

APR 2024

- Engineered a women's networking platform with real-time chat and secure authentication to foster seamless and inclusive community engagement.
- Designed and implemented frontend and backend using **HTML**, **CSS**, **JavaScript**, and **Firebase**, ensuring robust database integration and user authentication.
- Enhanced mentorship opportunities for women by enabling secure, user-friendly interactions, promoting an inclusive and supportive networking environment.

CERTIFICATIONS

- Hackerrank Certifications:** Advanced SQL, CSS, REST API and Python.
- Employability.life Certifications:** Cybersecurity - Security Testing of a Vulnerable API.
- IBM Certifications:** Introduction to Data Analytics and People and Soft Skills for Professional and Personal Success.
- University of Colorado Boulder Certifications:** The Structured Query Language (SQL).