AMARNATH GHOSH

Kolkata, West Bengal

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EDUCATION

Sister Nivedita University, Kolkata — **2022 − 2026**
Bachelor of Computer Science and Engineering CGPA: 7.03 — *Kolkata, West Bengal*
Courses: *Data Structures, Operating Systems, Computer Networks, Object Oriented Programming, Database Management System*

EXPERIENCE

Employability.life ⬏ — **September 2024 − November 2024**
Role - Api testing and Cybersecurity Intern — *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 and performance to enhance system reliability.
- Proficiently utilized **Linux environments** for scripting, server configuration, and security testing, strengthening commandline 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, MongoDB, PostgreSQL
 Tools: GitHub, VS Code, Postman, Firebase, MS Excel, Jupyter Notebook
AI/Automation: Gemini AI, OpenAI APIs

PROJECTS

Energy-IOT ⬀ | Next.js, Tailwind CSS, TypeScript, React.js, Node.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.

Study Buddy ⬀ | HTML, CSS , JavaScript, Firebase Authentication — **Jul 2025 − Present**

- Developed **Study Buddy**, a real-time, web-based learning platform aimed at helping students connect, collaborate, and solve academic queries through live Q&A sessions and curated educational content.
- Implemented dynamic content rendering and interactivity using **HTML, CSS,** and **JavaScript**, enabling seamless navigation, instant feedback, and a highly engaging user experience.
- Integrated **Firebase Authentication** to manage secure **user sign-ups** and **logins**, ensuring a personalized experience for each student while maintaining data privacy and access control.

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, and Rest API.
- **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).