

Abhik Samanta

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I'm a full-stack developer who enjoys building efficient, scalable applications. I focus on creating practical solutions that improve usability and performance. Currently, I'm learning Docker and system design to enhance my approach to software development.

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, C, C++, Python
- **Database:** SQL, MongoDB
- **Libraries/Technologies/Tools:** Docker, Kubernetes, Node.js, Express.js, NextJS, Typescript, REST APIs, WebSocket, WebRTC, Visual Studio Code, Git, GitHub, Nginx
- **Frontend:** HTML, CSS, React, Bootstrap, EJS
- **Methodologies:** Agile, CI/CD, Test-Driven Development (TDD), Software Development Life Cycle (SDLC)
- **Problem Solving:** Data Structures and Algorithms, System Design

EXPERIENCE

Walmart USA Advanced Software Engineering Virtual Experience Program on Forage (Jan 2025)

- Completed the Advanced Software Engineering Job Simulation, solving technical projects for 4+ different teams at Walmart, improving team workflows and operational efficiency.
- Developed a custom heap data structure in Java for Walmart's shipping department, reducing processing time by **20%** in package sorting operations.
- Designed a UML class diagram for a data processor, improving understanding of system architecture across 3 departments, resulting in a more streamlined development process.
- Created an entity-relationship diagram for a new database for Walmart's pet department, accounting for over 50 unique data points and improving data retrieval times by **15%**.

HacktoberFest 2024

- Contributed to open-source projects by successfully merging **4+ pull requests** on GitHub.

KEY PROJECTS

DM Detox [Github](#) (Mar 2025)

- Many students miss critical internship or placement emails due to inbox clutter, leading to lost opportunities.
- Developed a **Chrome extension** that filters spam and prioritizes important DMs in **Gmail**, improving email visibility by **40%**.
- Optimized **DOM manipulation and content scripts**, reducing email scanning time by **30%**, ensuring a **lightweight (under 50KB)** extension.
- *Tech Stack:* JavaScript, Chrome Extension APIs, HTML, CSS

Chaterly [Github](#) (Jan 2025)

- Built a real-time collaboration and chat platform supporting **20+ concurrent sessions** using Socket.IO and WebRTC.
- Integrated the **Gemini AI API and WebContainers** to execute AI-generated Express.js code for rapid prototyping.
- Automated the Express.js project setup, reducing developer onboarding time by **40%**.
- Enhanced user engagement with a ReactJS UI that reduced feature discovery time by **30%**.
- *Tech Stack:* Node.js, Express.js, MongoDB, Socket.IO, WebRTC, WebContainers, Gemini AI, ReactJS

Mock-AI-Interview [Github](#) [Live](#) (July 2024)

- Designed a mock interview experience generating **10+ adaptive questions per session** using the **Gemini AI API**.
- Implemented real-time feedback mechanisms, improving interview completion rates by **25%**.
- Integrated voice and face recording features for comprehensive analysis of non-verbal communication.
- *Tech Stack:* Next.js, JavaScript, Tailwind CSS, Framer Motion

EDUCATION

Kalinga Institute of Industrial Technology (Bhubaneswar, Odisha) (2022 – ongoing)

B.Tech. in Computer Science and Engineering **CGPA: 9.41/10.00**

Minor: Financial Economics (Using Data Analytics)

CERTIFICATES

1. Full Stack Web Development (Udemy) [Link](#)
2. Data Structures and Algorithms (GeeksForGeeks) [Link](#)
3. Strategy and Game Theory for Management (Coursera) [Link](#)
4. Business Analytics for Decision Making (Coursera) [Link](#)
5. Postman API Fundamentals [Link](#)

CODING PROFILES

- Leetcode (**400+ questions solved**)
- GeeksForGeeks (**400+ questions solved**)

EXTRA-CURRICULAR ACTIVITIES

Orchestrated and engaged in **15+ EDC IIT Delhi events**, significantly boosting participation by **20%** and nurturing a culture of innovation and entrepreneurship at KIIT.