

Sayan Sinha

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[Linkedin](#) | [Portfolio](#) | [Github](#)

Education

 **Indian Institute of Information Technology, Kottayam**

Bachelor of Technology in Computer Science and Engineering with specialization in Cyber Security

August 2023 – Present

Skills

- **Programming Languages:** Python, C/C++, Java, JavaScript, TypeScript, SQL, Bash
 - **Web/Mobile Development:** HTML5, CSS3, Tailwind CSS, React.js (Redux & Zustand), Node.js, Kotlin
 - **Database and Backend:** MySQL, MongoDB, Supabase, PostgreSQL, Express.js
 - **Cybersecurity Tools and Knowledge:** Kali Linux, Wireshark, Nmap, Burp Suite, OWASP Top 10, Netcat, Hydra, John the Ripper, Hashcat, Ghidra
 - **AI/ML:** NumPy, Matplotlib, Pandas, scikit-learn, TensorFlow, Natural Language Processing
 - **Tools:** Git, GitHub, VS Code, Figma, Android Studio
 - **Soft Skills:** Problem Solving, Time Management, Team Collaboration, Self-learning, Communication
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Projects


Scamazon – E-commerce Platform

 ReactJS, Flask, MySQL, HTML, CSS, JavaScript

- Developed a full-stack platform with a React frontend, Flask backend, and MySQL database.
- Built user authentication, product catalog, and order processing via RESTful APIs.
- Ensured responsive design and improved UX; used foreign keys to maintain data integrity.

[GitHub Repository](#)

Taskloop – Real-Time Task Management Application

 TypeScript, React, Supabase, Tailwind CSS, Shadcn UI, Vite

- Created a high-performance real-time task management application with full-stack capabilities.
- Integrated Supabase for authentication, real-time updates, role-based access control, and file storage.
- Added features including task CRUD, bulk actions, threaded comments, notifications, and attachment support.
- Designed accessible UI with dark/light modes; used React Context, hooks, and form validation via Zod.
- Maintained code quality using ESLint, Prettier, Husky, and Vitest.

[GitHub Repository](#)

HackTheRecipe – Smart Grocery Matching App

 React, TypeScript, FastAPI, Python, SQLite, Tailwind CSS

- Built a full-stack app that converts recipe prompts into grocery recommendations using a large language model.
- Applied NLP techniques to match extracted ingredients with entries in a structured grocery database.
- Implemented SQLite-based caching to reduce redundancy and improve performance.
- Designed a responsive UI with React and Tailwind; enabled real-time cart recommendations.

[GitHub Repository](#)

[Live Demo](#)

Extracurricular Activities and Achievements

- Ranked in the top 4% globally in picoCTF 2025, scoring 4610 points as part of team- WiNd0w5 0ff3nD3r5  [Team Ranking](#)
- Solved over 160 problems on LeetCode,  [LeetCode Profile](#)