Ayush Sharma

Indian Institute of Technology, Goa

Second Year **Undergraduate**, **Mathematics and Computing**
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Portfolio: **Click Here**

Education

B.Tech, Mathematics and Computing, IIT Goa,	CPI: 6.69/10	2023 – Present

Experience

Software Development Intern under Prof. Rahul CS   May 2025 – Present
- Built and optimized MongoDB schemas and integrated them with Express-based REST APIs to handle consultation, referral, and evaluation data.
- Debugged and refactored backend logic across multiple modules including form submission, student record update, and admin approval flow.
- Collaborating with the development team to optimize and extend system capabilities.

Goa Police Hackathon   Oct 2024
- Selected among the top 32 teams out of 100+ participants for a government-led cybersecurity hackathon.
- Developed core logic for detecting suspicious websites in a fraud detection system.

Projects

Alumni Management System [GitHub] [Demo]   March 2025 – Apr 2025
- Developed a full-stack alumni portal using the MERN stack to manage student profiles, alumni data, and placement statistics.
- Implemented secure authentication with JWT and role-based access for students and admins.
- Designed dynamic dashboards with advanced filtering for academic scores, alumni placement packages, and batch/branch-wise data.
- Built profile update workflows with admin approval and feedback mechanisms.
- Created RESTful backend APIs using Express.js and integrated MongoDB for data storage.
  Note: Candidate interface available for demo (you can sign up and login), admin access on request.

Fraud Detection System [GitHub] [Demo]   Oct 2024
- Built a full-fledged AI-powered web application to detect and flag fraudulent websites, developed as part of the Goa Police Hackathon (Team Project).
- Implemented multi-layered website analysis including SSL certificate validation, domain age, registrar checks, phishing keyword detection, and suspicious pattern recognition.
- Used Google Gemini AI to generate dynamic 0–100 fraud scores based on URL pattern, content, and metadata.

Secure Interview System (In Progress)   May 2025 – Present
- Building a secure, full-screen interview and coding platform using Electron and Node.js to prevent cheating during remote assessments.
- Implemented kiosk-mode interface with window lock, global shortcut blocking, and process monitoring for real-time security enforcement.
- Working on API request filtering and screen freeze mechanism on focus loss to block AI tool access and unauthorized multitasking.
- Actively debugging and learning advanced system-level techniques to build a production-grade tool.

Skills

Languages: C++, Python, JavaScript
Web Development: HTML, CSS, React.js, Node.js, Express, REST APIs
Databases: MongoDB
Frameworks & Tools: Flask, BeautifulSoup, EmailJs, WHOIS, requests, Git, Linux
Coursework: Algorithm Design, Probability and Statistics, Software Tools(Linux, Git), Linear Algebra

Achievements & Extracurricular

- Leetcode rating: 1700+
- Selected to represent IIT Goa in the Inter-IIT Basketball Championship, highlighting commitment, teamwork, and athletic discipline.