

# 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, Nodejs, 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.