

Vijay Venkat J

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Education

Indian Institute of Information Technology Kottayam (IIITK)

B.Tech Computer Science and Engineering

May 2027

CGPA: 8.77

Relevant Coursework

• Database Management Systems • Operating Systems • Computer Networks • Cyber Security • Penetration Testing • Reverse Engineering • Cryptography • Web Security • Cloud Security • Kubernetes • Docker • Burp Suite

Volunteering Experience

Cyber Security Club - IIIT Kottayam

Core Member

Jan 2024 - Present

- Created **Web exploitation** challenges for **Apoorv CTF 2025**, conducted by CSYClub IIITK. Helped organize the event, which saw **2,349+ users** and **1,247 teams**, managing the event logistics and providing participant support.
- Contributed to the **CSYClub CTF Guidebook**, authoring a section on **file upload** vulnerabilities, covering exploitation techniques and real-world attack scenarios.

Key Projects

- **ClaimBeaver** ([ClaimBeaver](#)) — *LangChain, Next.js, Redis, RabbitMQ, Prisma ORM, PostgreSQL* **March 2025**
 - Developed an **agentic claims workflow** using a locally hosted **LLaMA 3.2 8B model**, enabling on-prem data processing and reducing manual effort by 70%. Built a **Next.js** front-end for AI-driven query handling and real-time validation.
 - Optimized back-end performance by integrating **Redis caching**, reducing database retrieval time by **90%**. Implemented **RabbitMQ** for efficient **asynchronous processing**, improving the responsiveness and scalability of the system.
- **Cypher-Cli** ([Cypher-Cli](#)) — *Golang, Cobra, AES-CBC, PBKF2, SHA-256* **January 2025**
 - Built a secure **open source password manager** with **AES-256 encryption**, **SHA-256 hashing** and **Zero-Knowledge Architecture** to ensure privacy. Supports cross-platform usage, **browser integration**, and a secure password generator for enhanced security.
- **TimeTable** ([TimeTable](#)) — *Next.js, Langchain, MongoDB, Tailwind CSS* **September 2024**
 - Developed a **intelligent timetable management system** that automates class scheduling while allowing teachers to **dynamically adjust class timings**. Features **conflict resolution**, **real-time updates**, and an intuitive UI, ensuring seamless coordination for institutions

Technical Skills

- **Programming Languages:** JavaScript, TypeScript, Golang, Python, C++
- **Developer Tools and Frameworks:** Git, Github, Postman, Langchain, NextJS
- **Penetration Testing Tools:** Kali, BurpSuite, OWASP Zap, Nmap, Gobuster, Sublist3r, Nuclei, Ffuf

Achievements

- **BITS Goa CTF 2025 – Global Top 10** Ranked 9th globally among 800+ teams in BITS Goa's flagship 48-hour CTF.
- **Winners, DB Cooper 2.0 – The Digital Detective Hunt** Secured 1st place in an OSINT-focused CTF organized by BetaLabs, IIITK's technical club.