

# Pranathi T R

Computer Science | Software, Cybersecurity & Quantum Computing

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## PROFILE

Computer Science undergraduate at IIIT Kottayam and Smart India Hackathon winner with experience in cybersecurity, web development and quantum computing. Quantum open-source contributor and project lead with interests in competitive programming, visual learning and community-led software.

## EDUCATION

**Indian Institute of Information Technology Kottayam** | 2024 - Present

B.Tech in Computer Science and Engineering | CGPA: 8.9/10

**St. Philomena's PU College, Bengaluru** | 2024

Karnataka II PUC | 96.8%

**Carmel School, Bengaluru** | 2022

ICSE Class X | 98.6% | All India Rank: 7

## EXPERIENCE

**National Technical Research Organisation** | Cybersecurity Intern

- Contribute to cybersecurity research and collaborate with researchers on secure software systems, vulnerability assessment and security engineering.

**Crevox Studio** | Web Development Intern

- Develop responsive client websites using HTML, CSS and JavaScript; collaborate with designers on production-ready frontend interfaces.

## SELECTED PROJECTS

**Automated CCTV Vulnerability Assessment** | Smart India Hackathon winner

- Built a platform for automated assessment of CCTV cameras and DVRs, integrating intelligent network scanning with AI-assisted reporting.

**Quantum Teleportation over Noisy Multi-Hop Networks** | Team Lead, Quandummies

- Completed a study of quantum teleportation reliability using repeater-assisted entanglement swapping for the Quantum Computing for Engineers course.
- Examined hop count, channel noise, qubit loss and link latency, using teleportation fidelity, success rate and end-to-end latency as evaluation metrics.

**Locii** | Shared drawing boards | Live demo

- Developed a shared-board drawing application for collaborative visual work, positioned as an alternative to Excalidraw.

**Visualgo** | Project Lead | Live demo

- Led an Openverse DSA visualizer project with visual learning, quizzes and practice questions.

## ADDITIONAL PROJECTS AND TRAINING

### **Fish Freshness Detection** | Cedar Initiative, NoxusDynamics LLP

- Contributed to data acquisition, model development, training, optimization, review and presentation as part of Team NCD-3; the team reported 99.62% model accuracy.
- Completed the four-week practical AI training program; certificate awarded 27 September 2026.

### **AI-Powered Decentralized Digital Credential Verification System**

- Project focused on AI-powered verification of digital credentials through a decentralized system.

### **Bunk Counter** | Python

- Built attendance tracking and permissible-absence calculations for students.

More projects and open-source work: [github.com/ptr25](https://github.com/ptr25)

## OPEN SOURCE AND COMPETITIVE PROGRAMMING

- Completed multiple contributions to quantum open-source projects; interested in quantum computing and quantum networks.
- Practice Data Structures and Algorithms and competitive programming on LeetCode and Codeforces.

## LEADERSHIP AND COMMUNITY

### **Openverse Club** | Lead

- Lead open-source projects; contribute branding assets, UI mockups and promotional design.

### **Coders Club, IIIT Kottayam** | Volunteer and Core Member

- Mentored juniors in Python, Data Structures and competitive programming; organised contests and held successful events such as Doodle and Decode.

### **TEDx IIIT Kottayam** | Core Team Member

- Coordinated speakers, event operations, branding and audience engagement.

### **Fashion Club** | Lead

- Managed creative direction and institute-wide fashion events.

## TECHNICAL SKILLS

**Programming and tools:** Python, C, JavaScript, HTML, CSS, Git, GitHub, Linux, VS Code

**Foundations:** DSA, Operating Systems, DBMS, Computer Networks, Object Oriented Programming

## RECOGNITION AND INTERESTS

Smart India Hackathon winner and institute representative; debate competition winner; former Head Girl, Carmel School. Hosted TEDx 2026 and Freshers Fest, and conducted club sessions.

Interests include quantum computing, cybersecurity, AI, open source, competitive programming, product development, art, painting and designing posters using Figma and Canva.