Aryan Kudva

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Education

Manipal Institute of Technology *Manipal, India*
BE in Computer Science, CGPA: 7.59 (Completed 5th Semester) *Jul 2023 – Jul 2027 (Expected)*

Head Start Educational Academy *Bangalore, India*
12th A Levels *May 2023*

Extracurricular Activities

Member, Center for Advanced Scientific and Industrial Research *Manipal Institute of Technology*
1 Project with Schneider Electric *Sept 2025 – Present*
− Built automated threat-analysis tooling integrating CVE intelligence with MITRE ATT&CK technique mapping.
− Designed retrieval-augmented analysis workflows combining structured vulnerability data with heuristic-based classification.

Founding Member, Prism *Manipal Institute of Technology*
Computing & AI Student Club — theprism.fyi *Present*
− Co-founded PRISM and served as Treasurer & Technical Head.

Cybersecurity Collaboration Head *MIST — Manipal Information Security Team*
Student Organization *Dec 2024 – Present*
− Led outreach for cybersecurity CTFs, workshops, and technical events.
− Built partnerships across student communities and coordinated national-level participation.

Leadership & Activities

Core Committee Organizer — TechTatva 2025 (CTF and Faceless OSINT) *Aug–Oct 2025*
− Led a 30-member organizing team for university-wide CTF and OSINT competitions.
− Owned challenge coordination, logistics, and execution for 750+ total participants.

Indomitus Hackathon — Organising Committee | MIT ICT Dept *Apr–May 2025*
− Contributed to event website and challenge design for 40 teams.

Citadel 2025 (Online CTF Competition) | MAHE Event *Oct 2025*
− Placed 2nd among 200+ teams.

AURCTF | Aurora TechWeek | MIT Manipal *Jan 2025*
− Achieved 3rd place among 70 teams.

Schneider CTF | Hackathon | MIT Bangalore *Dec 2024*
− Placed 5th out of 50 teams.

Projects

ShortURL — URL Shortening Service (Source Code) *Dec 2025*
− Designed and implemented a Flask-based URL shortening service with persistent storage.
− Implemented unique hash generation, redirect handling, and collision avoidance mechanisms.
− Added link analytics, expiration support, and RESTful routing for extensibility.

Design Winner — HackThorns | MIT Manipal CSE Dept (Source Code) *May 2025*
− Built a Flutter-based productivity application focused on permission-based app locking.
− Integrated Supabase (PostgreSQL) for secure authentication, data storage, and real-time sync.
− Designed modular UI components with scalability and cross-platform support in mind.

Leave Management System (Source Code) *Oct 2025*
− Developed a role-based leave management system using Flask and SQLite.
− Implemented request workflows, approval logic, and audit-friendly data persistence.
− Designed REST APIs to support future frontend and mobile integrations.

Library Database Website (Source Code) *May 2025*
− Built a searchable library database using React, TypeScript, and Tailwind CSS.
− Implemented client-side filtering, structured views, and responsive UI components.
− Focused on clean component architecture and maintainable frontend design patterns.

Technical Skills

Languages: C, C++, Python (Flask), TypeScript, SQL
Frameworks: React, Tailwind CSS, Flutter
Security Knowledge Bases & Frameworks: CVE, CWE, MITRE ATT&CK
Tools/Platforms: Git, Linux, Docker