

AYUSHMAN RAY

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EDUCATION

B. Tech in Computer Science and Engineering
Vellore Institution of Technology

Sept 2022 - Present
CGPA: 8.36

TECHNICAL SKILLS

Languages: Python, Java, HTML

Tools: Linux, Visual Studio Code, Google Colab, Flask, Webhooks, MySQL, GitHub

Security Tools: Nmap, Scapy, Burp Suite, Wireshark, Metasploit, GoPhish, Autopsy

SIEM Tools: Splunk (Certified - Intro to Splunk & Using Fields)

EXPERIENCE

Software Intern – Tonbo Imaging

Nov 2024 – Jan 2025

- **Achieved 23% improvement in Linux kernel boot speed (35ms to 27ms)** through systematic analysis of system bottlenecks and implementation of targeted memory and configuration optimizations under technical mentorship
- **Executed comprehensive kernel performance tuning**, identifying 8+ critical bottlenecks and deploying solutions that enhanced startup performance by 23% and improved power efficiency by 15% across embedded system platforms
- **Gained expertise in low-level system optimization**, working directly with kernel parameters and boot sequences to deliver quantifiable performance improvements while maintaining system stability

Backend Development Intern — Staychat AI

Nov 2025 - Present

- **Architected and deployed WhatsApp Business API integration** using FastAPI and Meta's webhook system, enabling real-time conversational AI for multi-property hotel management with automated booking workflows
- **Implemented hybrid AI model** combining Google Dialogflow and Gemini API for intelligent query routing, achieving seamless fallback mechanisms between rule-based and generative AI responses for enhanced customer interactions

Cyber Security & Ethical Hacking Intern — SparkIT

Dec 2025 - Present

- **Executing hands-on cybersecurity projects** including phishing simulation (GoPhish), web application VAPT following OWASP guidelines, Android penetration testing, and digital forensics investigation using Autopsy toolkit
- **Gaining practical expertise** in vulnerability assessment, penetration testing methodologies, social engineering attack vectors, and forensic analysis through intensive project-based training

ACHIEVEMENTS

PATENT - Led cross-functional development team of 5 engineers to co-create "Cool Veil" smart cooling jacket, securing intellectual property rights and delivering a functional prototype that reduced ambient temperature by 12-18°C within 3 minutes of activation (Application No. 13269/2025-CO/SW, Filed: 07/04/2025)

COMPETITIVE PROGRAMMING & CTF

HackQuest CTF Season 10 (TCS) | December 2025

Solved cryptography and forensics challenges involving PRNG seed exploitation and large-scale log forensics (41K+ entries) using Python scripting, regex pattern matching, and systematic debugging to successfully extract hidden data

EXTRA-CURRICULARS

DSW Office Member December 2022 - August 2025, Managing Editor Team, April 2023 - June 2023.

Led end-to-end event planning and execution for EV Club's flagship "ROBOX 1.0" workshop (Sept 2023), managing logistics for 80+ participants, securing industry expert speakers, and facilitating practical EV construction sessions using Arduino-based development kits.

Managed technical operations for AdVITya 2025 (3-day college fest), supervising 40+ technical events, resolving real-time technical difficulties, and ensuring zero major disruptions through systematic workflow monitoring and rapid response protocols.

POSITION OF RESPONSIBILITY

Technical Secretary – Student Council – VIT Bhopal University

Aug 2024 – Aug 2025

- Managed 40+ technical clubs, chapters, and communities, overseeing event planning, resource allocation, and end-to-end execution
- Coordinated post-event reporting with comprehensive documentation across Excel data consolidation, presentations, and official college materials across multiple platforms
- Acted as primary liaison between technical clubs and administration, managing communication and streamlining operations
- Supported freshman orientation and handled technical documentation for university-wide activities

Technical Lead – GSoC Innovators Club – VIT Bhopal University

Jan 2025 – July 2025

- Spearheaded organization and execution of "Summer of CodeFest '25," the club's inaugural hackathon impacting 100+ participants
- Led technical sessions on GitHub and version control for 100+ participants; mentored teams throughout the 2-day event
- Coordinated with cross-functional teams including anchors, quiz coordinators, and backend support to ensure seamless event delivery

CERTIFICATES

Splunk Fundamentals (eLearning)

December 2025

- Intro to Splunk (Certified)
- Using Fields (Certified)