

# 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**

- Optimized Linux kernel boot speed by 23% (35s to 27s) and power efficiency by 15% through bottleneck analysis and parameter tuning on embedded platforms

### Backend Development Intern — Staychat AI

**Nov 2025 - Present**

- Built and integrated WhatsApp Business API integration using PythonAPI and Meta's webhook system, enabling real-time conversational AI for multi-property hotel management with automated booking workflows
- Implemented a hybrid AI system (Dialogflow + Gemini API) to handle complex customer queries with reliable fallback responses.

### Cyber Security & Ethical Hacking Intern — SparkIIT

**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

## PROJECTS

### System Monitor Pro (Linux, Python, Flask)

- Full-Stack Architecture: Engineered a hybrid monitoring tool decoupling data collection (Python/psutil) from visualization (Flask/Chart.js), ensuring zero-latency dashboard updates during high system load
- Real-Time Data Pipeline: Designed a JSON-based REST API to asynchronously fetch system metrics (CPU, RAM, Thermal) without page refreshes, optimizing frontend performance
- Defensive Programming: Implemented automated log rotation and error handling to prevent storage overflows, ensuring long-term stability for background Linux processes

## ACHIEVEMENTS

### HackQuest CTF Season 10 (TCS) | December 2025

- Solved complex challenges in Cryptography, Forensics, and Reverse Engineering, securing 600 points (Official) + 300 points (Upsolve)
- Exploited a Time-Based PRNG vulnerability to decrypt data and parsed 41K+ log entries using Regex to reconstruct a hidden flag
- Reverse-engineered a Python executable by unpacking PyInstaller and analyzing bytecode to identify an XOR-based encryption scheme

**Patent:** Secured Copyright for 'Cool Veil' smart cooling jacket; led 5-member team to build a prototype reducing ambient temp by 18°C. (App No. 13269/2025-CO/SW).

## EXTRA-CURRICULARS

Managed technical operations for AdVITYa 2025 (College Fest), supervising 40+ events and ensuring zero disruptions through systematic workflow monitoring.

## POSITION OF RESPONSIBILITY

### Technical Secretary – Student Council – VIT Bhopal University

**Aug 2024 – Aug 2025**

- Managed 40+ technical clubs and oversaw university-wide events, coordinating resource allocation, documentation, and administration liaison for the Student Council

### Technical Lead – GSoC Innovators Club – VIT Bhopal University

**Jan 2025 – July 2025**

- Spearheaded 'Summer of CodeFest 25' for 100+ participants, leading technical sessions on GitHub and mentoring teams throughout the hackathon