

Vismaya Vinod Nair

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Education

VIT Bhopal University

Sep 2022 – Present

B.Tech. in Cybersecurity and Digital Forensics

CGPA: 8.56/10

Technical Skills

- Languages & Databases: Python, Java, SQL, JavaScript
- Frameworks & Libraries: React.js, Node.js, NumPy, OpenCV
- Developer Tools & Platforms: Git, Docker, AWS, Firebase, REST APIs, Vercel
- Cybersecurity: Linux, SIEM, Burp Suite, OWASP ZAP, IAM, WAF, DNSSEC, Threat Intelligence, Wireshark

Professional Experience

Cybersecurity Analyst Intern – Arada Developments

Nov 2024 – Dec 2024

Dubai, UAE

- Identified and prioritized critical system risks by executing vulnerability assessments with SIEM tools and threat modeling.
- Discovered, documented, and reported over 15 Common Vulnerabilities and Exposures (CVEs) via penetration testing, collaborating with senior staff on remediation.
- Improved incident response for over 100 networked assets by configuring Web Application Firewall (WAF) rules and deploying DNSSEC.

Projects

CYPICS – Crime Reporting Mobile App [GitHub]

May 2025

- Cybersecurity Project – Developed a secure and anonymous crime reporting Android application.
- Engineered real-time, secure report logging for 30+ test cases using Firebase Authentication.
- Built an SOS feature with real-time location-based alerting to accelerate emergency response times.
- Ensured user privacy by implementing end-to-end encryption and anonymized reporting, adhering to OWASP mobile security standards.

Coverless Image Steganography Tool [GitHub]

May 2024

- Cybersecurity Project – Created a Python tool for covert communication by hiding data in images without altering the cover file.
- Concealed data within images by implementing steganographic algorithms using OpenCV and NumPy.
- Achieved a high imperceptibility rate with a 95.6 Peak Signal-to-Noise Ratio (PSNR) across 50+ test images.
- Validated the tool's effectiveness by mapping its data hiding process to the MITRE ATT&CK framework's data exfiltration tactics.

UNITY SERVE – NGO Empowerment Platform [GitHub]

Apr 2023

- Full Stack Development: Developed a full-stack platform using React.js (frontend) and Node.js (backend) to streamline donation processes for NGOs.
- Integrated Firebase for secure user authentication and the Razorpay API for payment processing.
- Designed and implemented a Role-Based Access Control (RBAC) system for admin, NGO, and donor user roles.
- Iterated on UI/UX designs based on feedback from user testing with 3 local NGOs, improving platform usability.

Certifications

IBM Cybersecurity Analyst, EC-Council: Digital Forensics Essentials

Leadership Experience

Media & Marketing Co-Lead – Cyber Warriors Club

Apr 2024 – Present

VIT Bhopal

- Organize and lead 5+ cybersecurity workshops and webinars, managing campaigns that significantly increase social media engagement.
- Spearhead outreach strategies that have resulted in substantial membership growth in a single semester.

Core Creative Team – Mozilla Firefox Club

Nov 2023 – Present

VIT Bhopal

- Design and manage digital marketing campaigns for open-source events, creating 10+ posters and reaching over 500 students.

Achievements

Awarded 10% Scholarship for AlgoUniversity Accelerator Camp; achieved 18th rank in the Graph Contest.

Secured Global Rank 2822 out of 8765 in TCS CodeVita Season 12.