

# 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

- Developed a secure Android app for anonymous crime reporting, featuring an SOS function with real-time location alerting.
- Engineered real-time, secure report logging for 30+ test cases using Firebase Authentication.
- Ensured user privacy by implementing end-to-end encryption, adhering to OWASP mobile security standards.

### Coverless Image Steganography Tool [GitHub]

May 2024

- Created a Python tool for covert communication using OpenCV and NumPy to implement steganographic algorithms.
- 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

- 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.

## Certifications

MERN Full Stack (Ethnus), Google AI Essentials, IBM Cybersecurity Analyst, Ethical Hacking Essentials (EC-Council)

## 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.