

Rohit Narayanan M

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SUMMARY

Ambitious & determined Cybersecurity Researcher with 3+ years of experience in Web Security, AI, and VA&PT. Highly motivated and competitive CTF Player with Team bi0s, India's No. 1 CTF Team since 2016.

EXPERIENCE

Security Engineer

March, 2022 – Present

Traboda CyberLabs | traboda.com

Kerala, India

- Researched and built proof-of-concept exploits for various client-side vulnerabilities, including DOM Clobbering, Dangling Markup, and CRLF Injections. Additionally, conducted VA/PT for 10+ clients, collaborating to mitigate the identified issues.
- Developed automated exploits targeting side-channel attacks, such as XS-Search, connection pool leaks, and cache probing, for use during engagements.
- Conducted static and dynamic code reviews for internal Django/Next.js applications using GraphQL and PostgreSQL, catching vulnerabilities in pre-production.
- Conducted threat modeling exercises using STRIDE framework on Traboda's products to identify potential risks. Collaborated with development teams to prioritize and mitigate security threats.

Intern

February, 2021 – February, 2022

Traboda CyberLabs | traboda.com

Kerala, India

- Performed code reviews of client application and developed functional exploits for vulnerabilities such as authenticated RCE, CSRF, XSS etc.
- Shadowed in multiple VAPT engagements and vulnerability assessments. Documented and presented the research findings of performed pentesting engagement.

EDUCATION

Amrita Vishwa Vidyapeetham

2020 – 2024

B.Tech. in Artificial Intelligence, GPA - 8.54

Kerala, India

PROJECTS

Vulnerability Detection on Codebase using Bidirectional NLP | *Co-Author | Python*

2024

- Developed an LLM-powered vulnerability detection model using MITRE and CWE data to detect web vulnerabilities across 28+ languages.
- Researched MITRE and CWE databases to enhance model training and developed an automated pipeline for dataset creation.

AstraV3 | *Contributor | Golang, Python*

2022

- Attack and Defense framework/platform intended for automated submission, exploitation, and patching of multiple vulnerabilities within services during an Attack & Defense contest.
- Introduced threading efficiency and containerized the project with Docker. Developed REST APIs and integrated a real-time exploit validation feature against randomly chosen internal nodes.

TALKS & WORKSHOPS

From Code to Compromise: The Hidden Risks in ElectronJS | *bi0s Meetups*

2024

- Delivered a talk on the Internals and common vulnerabilities in ElectronJS and presented a case study on the ElectronJS vulnerability in Evernote App.

Intro to Java Deserialization | *Internal*

2022

- Presented the fundamentals of Java deserialization, various tools and methods to discover them, and the prevention measures for the same.

- Basics of HTTP Request Smuggling** | *Internal* 2022
 - Conducted a session about different types of Request Smuggling attacks and various ways to discover and prevent them.
- Demystifying Web Security** | *InCTF* 2021
 - Led a 5-week boot camp on web security for around 100 college students, covering foundational topics in web security and practical applications.

NOTABLE HONORS AND AWARDS

Conferences

- Represented India at the Global Cybersecurity Camp 2025
- Student Scholarship Awardee of BlackHat Asia 2023

Academic Awards

- Achievers Award, Amrita School of Computing, Kerala, India 2022

Publications

- BiT5: A Bidirectional NLP Approach for Advanced Vulnerability Detection in Codebase, Procedia Computer Science 2024
- ADMM: Computational Analysis of Lasso and Ridge on Fraud Detection, IEEE 2024

Capture The Flag (Hacking Contest)

- Finalist, "Qiangwang" International Elite Challenge, Cyberpeace China (*Team*) 2023
- Finalist, TrustLabs CTF, IIT Bombay (*Duo*) 2023
- 1st Rank, Dome CTF, Kerala Police Cyberdome (*Duo*) 2022
- 2nd Rank, BSidesSF CTF, BSidesSF (*Team*) 2022
- Finalist, ASIS CTF, Team ASIS (*Team*) 2022, 2023
- 1st Rank, Dome CTF, Kerala Police Cyberdome (*Duo*) 2022

LEADERSHIP AND ACTIVITIES

Team Lead & Web Security Researcher

2020 – 2024

bi0s | *bi0s.in*

Kerala, India

- bi0s* is India's No. 1 ranked CTF team and Cyber Security research club since 2016.
- Managed over 30 members, leading the team to secure multiple national and international Capture The Flag competitions maintaining the No. 1 position in India.
- Improved the rating of our premiere International event, *bi0s* CTF to around 80 according to CTFTime.org in the year 2022-23.
- Published 5+ technical blogs on various Web Security CTF challenges. Additionally, mentored and trained over 10+ students in web security topics.

Core Management Team & Challenge Author

2020 – 2023

InCTF

Kerala, India

- InCTF Junior:** National level Capture The Flag competition targeting students from grade 8 - 12 garnering over 17,000 registrations from many schools all over India.
- InCTF Nationals:** National level Capture The Flag competition exclusive to both University students and working professionals across India.
- bi0s CTF:** International level Capture The Flag competition open to all nations currently weighted around 80 rating according to CTFTime.org.
- Also authored more than 5 challenges in the categories of Web Security and Programming.

SKILLSETS

Programming: Python, Java, C++, C, Go, Javascript

Developer Tools: Docker, Docker-compose, Git

Web Development: PHP, Flask, NodeJS, Express, Selenium

Security Tools: Burp Suite, Metasploit, Wireshark, Nmap, SQLmap