



Sam MG Harish

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 [sam-mg-](#) |  [sam-mg](#)

PROFILE

Mobile Security Researcher specializing in Android reverse engineering, mobile malware analysis, and CTF development. Strong in secure coding, debugging, and building reliable, security-focused software.

EDUCATION

- **Amrita Vishwa Vidyapeetham** August 2023 – Present
B.Tech CSE (Specialization: Cyber Security) (CGPA: 7.32/10.0) Kollam, Kerala
- **Vidya Mandir Estancia** May 2023
Senior High School (Percentage: 72.6%) Guduvancherry, Chennai
- **Srimathi Sundaravalli Memorial School** May 2021
High School (Percentage: 80.2%) Perungalathur, Chennai

EXPERIENCE/INTERNSHIPS

- **Team bi0s** February 2024 – Present
Mobile Security Researcher Kollam, Kerala
 - Reverse-engineered 40+ Android applications to identify security flaws and improve mobile app security.
 - Solved 100+ CTF challenges across reversing, mobile security, and exploitation.
 - Developed 10+ CTF challenges for mobile security, reversing, and exploitation.
- **NullClass** Mar 2025 – Sep 2025
Cybersecurity Internship
 - Engineered a proof-of-concept Android malware *HarvestShell* to simulate data exfiltration and reverse shell attacks.
 - Developed Frida instrumentation scripts to hook Java methods, bypass MD5 checks, and exploit SharedPreferences vulnerabilities.
 - Utilized ADB and Termux to deploy Python web servers and Bash automation scripts for Android system telemetry and management.

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT

- [C.1] Sam MG Harish, Aksharasree S, Deepak S G, Mamatha S, Vipina Valsan (2024). **Enhancing Traffic Safety: An Automated License Plate Recognition System for Effective Law Enforcement**. In *2024 International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET)*, pp. 1-6. IEEE. 27–28 September 2024, Indore, India. DOI: 10.1109/ACROSET62108.2024.10743360

SKILLS

- **Programming Languages:** Python, Java, C, JavaScript
- **Mobile Security Tools:** JADX, IDA, Frida, Burp Suite, HTTP Toolkit
- **Version Control:** Git, GitHub
- **Soft Skills:** Problem Solving, Debugging, Team Collaboration, Adaptability

HONORS AND AWARDS

- **Mobile Hacking Lab CTF - Black Hat MEA 2025 (1st Place)** Dec 2025
Cybersecurity CTF Competition
 - Secured 1st place in a 48-hour individual CTF featuring challenges across Android, iOS, and Fuzzing domains.
- **H7CTF 2025 (1st Place)** Nov 2025
Cybersecurity CTF Competition
 - Ranked 1st among 30 finalist teams (selected from 2,000+ global participants) at H7CTF 2025 Grand Finale.
- **CII Summit (Finalist Team)** Sep 2025
National Level Hackathon
 - Selected among the top 30 teams nationwide to present pplSafer at the CIIS Hackathon.
- **DEFCON 33 – Mobile CTF (3rd Place)** Aug 2025
Cybersecurity CTF Competition
 - Placed 3rd in the DEFCON 33 Mobile CTF.
- **Vidyut Multifest Hackathon (3rd Prize)** May 2025
AI-powered Security Analysis Tool
 - Built *Null-Scan*, an AI-powered security analysis tool for Web, Android, and Blockchain.
 - Led the Android module, implementing automated static analysis and AI-driven vulnerability classification.

TALKS & PRESENTATIONS

- **bi0s Kochi – Technical Talk**

Sep 2025

Mobile Malware and Reverse Engineering

- Delivered a session on mobile malware and mobile reverse engineering, covering real-world threats, analysis workflows, and a live hands-on demonstration.

PROJECTS

- **lu77U-MobileSec**

May 2025 – Present

Tools: Python, AI Models, Android Static Analysis

- Developed a Python-based CLI tool that integrates AI models for static analysis of Android apps.
- Automatically detects whether the app uses Java/Kotlin, Flutter, or React Native to apply framework-specific analysis.
- Performs static analysis tailored to the detected framework and language & Identifies security vulnerabilities using AI-powered heuristics.

- **MobileReversing**

May 2024 – Present

Tools: Frida, Burp Suite, HTTPToolkit, Android RE

- Walkthrough and roadmap for learning Android reverse engineering and mobile security.
- Documented dynamic analysis techniques and challenge solutions.
- Utilizes tools like Frida, Burp Suite, and HTTPToolkit for instrumentation.

- **Python SHA-256 Implementation**

Dec 2024 – Jan 2025

Tools: Python, Cryptography, CLI

- Python implementation of the SHA-256 hashing algorithm from scratch.
- Provides a command-line tool for hashing strings and files.
- Demonstrates understanding of cryptographic primitives and CLI design.

VOLUNTEER EXPERIENCE

- **BSides Dehradun**

Sep 2025 – Present

CTF Core Team Member

- Develop reversing and Android-focused challenges for an 8-hour CTF.
- Contribute to event planning, coordination, and on-site operations.

- **Student Social Responsibility**

Nov 2025

Civic Education

- Delivered sessions on the Constitution of India covering origin, evolution, and civic responsibilities.

- **BSides Vizag**

Oct 2025

Promotions & Outreach

- Contributed to pre-event promotional efforts for BSides Vizag 2026.

- **BSides Kerala**

Feb 2025

Ground Operations

- Assisted with event operations at BSides Kerala 2025.
- Participated in workshops on Android app security and Azure pentesting.

- **bi0s Pentest Workshop**

Sep 2024

Coordinator and Speaker

- Taught students how to use JADX, ADB, and Genymotion for APK testing and reverse engineering.
- Conducted a CTF for live demonstration.

- **AmritaVaram Seminar**

Oct 2023

Cybersecurity Educator

- Raised student awareness about modern cybersecurity threats and how to avoid them.

LANGUAGES & INTERESTS

Languages: English (Fluent); Tamil (Native); Malayalam (Basic); Telugu (Basic)

Hobbies: Long-distance cycling (2000+ km); Android app development; Listening to Music