

# Sam MG Harish

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## PROFILE

Student with skills in Android reversing and working in both team-based and independent projects. Software Developer equipped with secure coding, debugging, and project management abilities. Performing project goals consistently with elegant and scalable code.

## EDUCATION

### Amrita Vishwa Vidyapeetham

B.Tech CSE (*Specialization: Cyber Security*) (**CGPA: 7.34/10.0**)

Kollam, Kerala

August 2023 – Present

### Vidya Mandir Estancia

Senior High School (**Percentage: 72.6%**)

Guduvancherry, Chennai

June 2021 – May 2023

## EXPERIENCE / APPRENTICESHIP

### Team bi0s

Mobile Security Researcher

Kollam, Kerala

February 2024 – Present

- Reverse engineer APKs to identify security vulnerabilities, uncover hidden bugs and contributing to improve security measures.
- Solving Different Categories of Capture The Flag (CTF) challenges.
- Create CTF Challenges for Cyber security Training, enhancing people with Reverse Engineering, Code Analysis, and Application Exploitation.

## PAPER PUBLICATIONS

### Enhancing Traffic Safety: Automated License Plate Recognition (ALPR)

#### System for Effective Law Enforcement

Nov 2023 – Dec 2023

- Developed Python scripts to automate data processing tasks.
- Designed machine learning models to automate tasks and improve accuracy of predictions.
- Performed digital image processing to extract useful information from imagery.

## SKILLS

**Programming Languages:** Python, Java, C, C++, JavaScript **Web Technologies :** HTML, CSS

**Markup Languages:** Markdown, XML

**Tools:** Git, Android Studio, JADX, IDA, HTTP Toolkit, Burp Suite

**Database:** SQL, PostgreSQL

**UI/UX Tools:** Figma, Canva

**Soft Skills:** Problem-Solving, Critical Thinking, Project Management, Adaptability

## PROJECTS

### Dr01d\_H4ckQu35t

May 2024 - Present

Developed and maintained Dr01d\_H4ckQu35t, a comprehensive walkthrough and roadmap for Android reverse engineering and security challenges. The project documents solutions, dynamic analysis techniques, and ethical hacking practices, serving as a learning resource for mastering vulnerabilities of Android apps and instrumentation tools such as Frida.

### Cryptic-CodeCruncher-s-Cache

June 2024 - Present

Developed and maintained a comprehensive repository of CTF challenge files and detailed writeups, showcasing expertise in mobile security, reverse engineering, and problem-solving across various Android and iOS CTF competitions.

### Xandronyx.ML

April 2025 - June 2025

Xandronyx.ML is a comprehensive toolkit for Android malware detection. It uses multiple machine learning models to classify APK files using static analysis and includes a SHA-256-based malware hash checker with API support.

## **Python SHA-256 Implementation**

Dec 2024 - Jan 2025

A Python package that implements the SHA-256 hashing algorithm from scratch, providing a command-line tool for hashing strings and files.

## **Mulyam**

Oct 2024 - Oct 2024

Developed "Mulyam," an Android app using Java and native C++ for secure API key handling, enabling real-time stock data retrieval, currency conversion, and error handling with a modern Material UI.

## **Padmashali**

May 2024 - May 2024

Developed "Padmashali," an Android app in Java to visualize the evolution of weaving technology, featuring interactive timelines, quizzes, and a modern Material UI for educational engagement.

## VOLUNTEERING

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### **BSides Kerala**

Feb 2025

*Ground Ops*

Volunteered at BSides Kerala 2025, assisting with event coordination while attending workshops on Android app security and Azure penetration testing, and collaborating with professionals from diverse backgrounds.

### **Amritavarsham'71**

Oct 2024

*Traffic Control Coordinator*

Maintaining the flow of the vehicle in the campus area and directing vehicles to the desired places.

### **bi0s Pentes Workshop**

Sep 2024

*Coordinator and Speaker*

Teaching Students on how to use JADX, ADB and Genymotion to test APKs and how to reverse APKs and get the source code of it. Conducted a CTF to help them have a live demonstration on how to reverse APKs.

### **AmritaVaram Seminar**

Oct 2023

*Cybersecurity Educator*

Keeping students aware of the current generation cyber-security problems and how they can avoid those issues.

### **Amritavarsham'70**

Oct 2023

*Mobility Controller*

Controlled traffic flow in the campus area and helping people reach spots.

## HOBBIES

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**Cycling:** Have completed around 2000km of cycling

**Application Development:** Developing Android Applications using Java and XML

**Listening to Music**

## LANGUAGES

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**English:** Fluent (Reading, Writing, Speaking)

**Tamil:** Native (Reading, Writing, Speaking)

**Malayalam:** Basic (Understanding, Speaking)

**Telugu:** Basic (Understanding, Speaking)