VANSH SANTOSHI

ANDROID SECURITY &
REVERSE ENGINEERING

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EDUCATION

2021-2025

KIIT, BHUBANESWAR
B.Tech in Computer Science And Electronics Engineering

SKILLS

- Android Security: Malware Analysis, Application security testing
- System Administration: Linux (Debian, Ubuntu) & Windows command line
- Reverse Engineering: Static & Dynamic Analysis
- Tool set: - Frida, XPosed, APKTool, JEB, Jadx, Burp Suite/PCAPDroid/MITMProxy, IDA, Ghidra
- Cloud platforms (PaaS: Heroku, Railway.app, Vercel, IaaS: Google Compute Engine)
- Automation: Android, Web (Selenium)
- Programming Languages: C, C++, Java, Python, Smali (Assembly-like Language), Assembly (basic)
- Android Development: Basic proficiency
- Electronics: Soldering, Basic electronics knowledge

OPEN SOURCE CONTRIBUTIONS

YeetMeet - Contributor (Sep 2021)
https://github.com/1337w0rm/YeetMeet/pull/47
https://github.com/1337w0rm/YeetMeet/pull/49

- Contributed to a **150+ stars** open-source Selenium project written in Python, during high school fixing major bugs and adding new functionalities. Thus, demonstrating early interest in automation and open-source contribution
- Created step-by-step deployment video and text tutorials to support the user community: **Drive Link**

Smali/Baksmali (by Google) - Contributor (Jan 2025)
https://github.com/google/smali/pull/87

- Resolved a bug that broke deodexing and disassembling of ODEX (Optimized DEX) files on Android 12+ due to Android Runtime changes
- Updated baksmali logic to correctly locate DEX header in modern odex/vdex files, restoring compatibility. Also updated project documentations to reflect the same

ACHIEVEMENTS

Found a possible attack vector in Promon's Mobile App Protection (Used by Axis and various other banking apps)

- While the fix wasn't adopted, the effort was recognized with a $500 discretionary bounty

PROJECTS

ANDROID THREAT SIMULATION & SERVER INFRASTRUCTURE (SECURITY RESEARCH)

Personal Security Research Project
Tech: Android, Java, Git, NodeJS, Smali language

- Developed a proof-of-concept Android application to simulate real-world mobile threats for security research and defensive analysis.
- Researched Android persistence, permission abuse, and evasion techniques, including abuse of accessibility services (for educational purposes).
- Built a custom backend server to receive, log, and analyze captured device data from infected test devices.
- Demonstrated multiple attack scenarios through controlled lab testing and recorded PoCs.
- Focused on ethical research, defensive awareness, and understanding attacker methodologies to improve Android security.

Code:

- Android Client: GitLab – link
- Backend Server: GitHub – link

Videos:

- Recorded PoC - Malware injection into normal apps - link

EXPERIENCE

Nov 2025 - Jan 2026

ALLYWIRED SOFTWARE SOLUTIONS

Service Engineer Level 2

- Worked with Flutter (Dart) to fix UI and logic issues in a live application
- Modified widgets, layouts, and navigation flows
- Identified and resolved runtime crashes and UI bugs
- Updated Android app codebases (Java/Kotlin) for bug fixes and minor feature updates
- Tested apps on emulators and real devices