

YASH HEMRAJ SOMALKAR

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Education

Indian Institute of Technology (BHU) Varanasi

Dec 2021 – Jun 2025

Bachelor of Technology in Electrical Engineering

Technical Skills and Interests

Languages: C++, Python

Tools and Technologies: Git, Linux, Flutter, Jadx, Burp suite, WireShark, AutoSpy, adb, IDA

Interests: Android, Bug Bounty, Web and Network Pen-testing, Reverse engineering, Incident Response

Experience

Software Developer Intern @ Kelp

May 2024 – Jul 2024

- Developed JS extension to remove cookie pop-ups, enhancing **chromedp** Go scraping and reducing **80%** garbage Data
- Converted text-based matching logic from **Python** to **Go** for company-domain verification, achieving **90%** accuracy
- Created project converting **NLP** to **SQL** integrating **OpenAI API** for investor queries on **millions of websites**
- Converted Cleancorp Python package to Go, improving company name-to-domain verification accuracy by **25%**
- Exposure:** JavaScript, Go(chromedp), OpenAI API, SQL, Python, Qdrant

Security Research Analyst Intern @ Saptang Labs

Dec 2022 – Jan 2023

- Gathered and extracted data from **50+** sources using **web scraping**, creating APIs for enhanced police investigations. Found an ongoing **HDFC scam** by reverse engineering a scam app, detecting **1000+** affected endpoints and websites
- Developed an **OSINT** tool integrating **100+ APIs**, enhancing public information retrieval from Public Forums, retrieved **exact location history of scamsters** using these APIs, providing actionable intelligence for investigations
- Exposure:** Kotlin, Python, Open-Source Investigation, Jadx, Android Reversing, Threat Intel

Projects

Cab Booking Centralized Platform

Mar 2024 – Apr 2024

- Reverse engineered 4 major cab apps in India (**Ola, Uber, Rapido, Obi**) using **Frida, Objection, Jadx, APKTool**
- Reviewed **10,000+** lines of code for patching APKs, using **APKTool**, and decoded Protobuf encryption in Rapido, covering **50%** of requests intercepted by **Burp Suite**. Manually patched Uber app, ensuring request transparency
- Bypassed **SSL pinning** and proxied APIs, integrating data from **30+ endpoints** for a unified cab booking platform
- Exposure:** Reverse Engineering, Frida, Objection, Jadx, APKTool, Burp Suite

Prastuti'23 App [GitHub](#)

Dec 2022 – Jan 2023

- An app showing **10+ events, 50+ workshops and session**, timeline of events and standing of **500+ participants**
- Integrated features like dual theme, live animation, HTTPs, Google Maps, OneSignal, Google OAuth, text notification
- Exposure:** Flutter, Dart 2, RESTful API, JSON, Node.js, Google APIs, Firebase

Certifications

Google Foundations of Cybersecurity

PentesterLab Introduction Badge

TryHackMe Advent of Cyber 2022

PentesterLab Unix Badge

Bug Detection and Reports

- Reported a **GDPR PII exposure vulnerability** on a website with **415k active users**, published on [OpenBugbounty](#)
- Reported **Amazon Cloud based S3 bucket mis-configuration** bug of company with \$400 million investment that exposed Millions of user's Profile Photos, exposed Product Sales segment hub and 10000+ cash receipts and bank details
- Reported **Insecure Direct Object References and openredirect** bug in a company with million users, bounty \$550
- Acknowledged in the **NASA** and **SiteGround Halls of Fame** for responsible vulnerability disclosure

Honors and Achievements

- Second runner up in [Mercer - Mettl](#) CTF 2024, solved week-long security hackathon with **2000+ participants**
- Bronze in SNEAKING INTO THE CYBERCRACKS by Saptang Labs in **Inter-IIT Tech Meet 11.0**, at IIT Bombay
- Runner-up in CSAW CTF 2023 by **New York University**, among 1400+ professional teams in one of the oldest CTFs
- Runner up in Capture the Flag as part of Elan & Vision 2022 organized by IIT Hyderabad among **3000+** participants
- 1st Position in DroneTech event about drone navigation and 3rd in CTF at Technex'22 organized by IIT (BHU) Varanasi