

Aarsh Chaurasia

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Skills

- Network Security | Cloud Security | SOC | SIEM | Threat Intelligence | Secure Software Development | API Security | Security Tools
- OSINT | Mobile Application Security | Container Security | Cryptography | Digital Forensics | Ethical Hacking | Machine Learning
- Problem Solving | Leadership | Android Native Development | Intermediate DSA | English, Hindi– *All professional proficiency or above*

Experience

Software Development And Testing Intern

Login2Xplore

09/2024 - 04/2025

- **Rearchitected** the XDSArray backend system, enhancing data retrieval speed, reliability, and scalability—optimized to handle **petabyte-scale** structured and unstructured data.
- **Delivered** production-ready solutions powering **core internal systems**, with a focus on clean architecture, performance optimization, and seamless cross-team collaboration.

Founder

Okynus Tech

02/2024 - Current

- Developed a **groundbreaking** video encryption algorithm with enhanced speed, security, and **patent-level** originality.
- Incubated under **C3iHub**, IIT Kanpur and **SSIP 2.0**, Government of Gujarat for our innovative cybersecurity solutions.

Summer Research Intern

Florida International
University

06/2024 - 09/2024

- I **co-authored** a research paper titled: Navigating the Encryption Frontier: A Comprehensive Approach to Mobile Device Forensics Using Dynamic Analysis, AI, and Cloud Based Techniques.

Data Analytics Intern

CM Office Gujarat

11/2024 - 12/2024

- **Analyzed real data** from the state of Gujarat to identify anomalies, resulting in significant improvements in detecting and addressing fraudulent activities.

Projects

PhishSOC: AI-Powered Personalized Anti-Phishing Suite for Emails

- AI Powered Anti- Phishing Suite for Detection, Alerting and Mitigation powered by Live Threat Intelligence Feeds Content Sentiment Analysis, CNN Powered Screenshot Analysis with plug and play SIEM integrations (Splunk)

Timeline Reconstruction Tool for Android Forensics

- Developed a tool to extract data from Android devices and reconstruct a chronological timeline of events. Designed primarily for mobile forensics, this tool is currently under development to enhance digital investigations.

Homomorphic Encrypted Image Manipulation

- Developed a secure image processing system that enables contrast and brightness adjustments using homomorphic encryption. This approach allows image manipulation directly on encrypted data, ensuring privacy and confidentiality. The system was deployed on AWS.

Education

B.Tech-M.Tech

National Forensic Sciences University

Gandhinagar,GJ

08/2022 - 07/2027

- Computer Science Engineering with Cyber Security • CGPA: 9.35 • NFSU Admission Test **Rank 3**

Activities

- **Google Developers Student Club:** Served as the lead for the club and successfully completed all the campaigns (06/2023 - 06/2024)

Others

- **Winner (Rank-3) Hack-IITK National Cybersecurity Hackathon IIT Kanpur 2024:** Project PhishSOCAi competing with **4000+** teams
- **Winner Best Innovation Prize - Startup Track Hack-IITK 2024 :** Achieved this with our startup, **Okynus**.
- **Runner-Up (UptoSkills Startup-a-thon):** Achieved Runner-Up Position with our startup, **Okynus**, among teams from **150+** universities.
- **Winner And Podium Finish:** In Multiple Hackathon's And CTF's (Capture The Flag)