

MUKHILAN PARI

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About Me

Dedicated to fortifying digital landscapes, I am a cybersecurity professional pursuing a Master's in Information Security focusing on low-level OS and hardware security and with 4.5 years of experience in application security. Having extensively analyzed security challenges, my interest extends to the development domain as well, particularly in C and Go lang, crafting robust solutions with security best practices.

Education

MS CS in Information Security **Purdue University, IN, USA** GPA:3.5 **6/2023 - 10/2025**

- **Coursework:** *Cryptography, Information Security, Software Security, Network Security, Hardware-Software Security*

B.Tech in CSE **Amrita University, TN, India** CGPA: 3.24 **7/2015 - 05/2019**

- **Coursework:** *OS, Cryptography, Computer Networks, Data Structures and Algorithms.*

Skills

- **Languages:** C, C++, Go, Python, Java, Bash.
- **Frameworks & Tools:** OWASP, Burp Suite, Metasploit, Kali Linux tools, Wireshark, Nmap, SQLMap, Nikto, gobuster, Frida, Xposed, mobSF, USB Killer, Binwalk, sasquatch, kube-hunter, scout suite, chip whisperer, logic analyzer, etc.
- **Domains worked on:** Web application and API security pentesting, Android and IOS Mobile pentesting, Cloud application pentesting, Thickclinet application pentesting, Hardware and Firmware pentesting.

Certifications

Offensive Security Certified Professional (OSCP), Nov 2021 | Certified Ethical Hacker (V9), 2018.

Microsoft Azure Security Associate AZ-500, April 2021 | Course Certification In Cisco Certified Network Associate(CCNA) ,2017.

Experience

Analyst - OT Security Testing lab **Dubai Electrical & Water Authority** *Dubai, UAE* **02/2022 - 06/2023**

- Evaluated security products to meet DEWA's security requirements, conducted vulnerability assessments, and played a key role in the Pre-Qualification committee for utility sector vendors.
- Spearheaded the research and development of the OT Security Lab testing infrastructure, simulating attack vectors and test cases in ICS environments, and liaising with vendors and contractors for all possible use cases.
- Led the development of the OT security lab design, focusing on vulnerability assessment and identifying potential risks to existing environments, and effectively managed all lab operations.

Cyber Security Engineer II **Honeywell** *Bangalore, India* **01/2019 - 12/2021**

- Led E4E business unit projects across all PI phases as a point of focal, and collaborated effectively with project teams.
- Developed streamlined procedures that increased efficiency by 50% for mobile & cloud-pentesting processes, and received positive feedback for knowledge-sharing sessions on new tools, technologies, and test scenarios.
- Performed Application Threat Modelling analysis and Application Risk Exposure, and performed security planning, testing, verification, and risk analysis on web, cloud, mobile, and thick client applications.
- Automated tasks using Python & Bash for internal routine manual activities and achieved a 30% improvement in KPI.

Projects

- **Guest lecture:** Guest talk on "CTF - learn, play and fun" at the University of Wales Trinity Saint David in Nov 2020.
- **CTF contributions:** Authored challenges and hosted DarkArmy CTF, focusing on Web, OSINT, and Blockchain categories.
- **E-commerce site:** Developed an e-commerce website for a small-scale business in 2017 with 2-year support as a volunteer.
- **Publication:** May 2018, Published a research paper introducing a three-layered Multi-Factor Authentication system for online examinations, integrating facial recognition, biometric scanning, and OTP verification for heightened security and integrity.
- **OWASP Technical Member:** Shared technical expertise and provided guidance within the OWASP chapter as a technical member.
- **ARM TrustZone bypass replication:** Multi-Glitch the Glitching-Protections on ARM TrustZone-M paper on Nov 2023 as research.

Achievements

- **CTFTIME:** Achieved a top 5 ranking in India and a global ranking of 101, main contribution in solving web category.
- **Awards:** 3 Bronze cash awards, 6 Bravo e-thanks awards in Honeywell, and 2 tejeri cash awards in DEWA.