# Mukhilan Pari

Cyber Security Analyst - Pentesting
mukhilan.com , linkedin.com/in/mukhilanpari/

parim@purdue.edu, mukhilanpari@gmail.com
CTF : https://ctftime.org/user/83453
Mobile : +1 765 543 8848

## EXPERIENCE

**Dubai Electrical and Water Authority - DEWA** (Feb 2022 - Jun 2023)　　　　　Dubai, UAE
**Analyst - OT Security Testing Lab**
- ○ Member of the Pre-Qualification committee, evaluating new security products based on DEWA's security requirements and conducting vulnerability assessment, from vendors in the utility sector.
- ○ Conducted 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.
- ○ Key focal point in creating the OT security lab design for vulnerability assessment and managing the lab.

**Honeywell** (Jan 2019 - Dec 2021)　　　　　　　　　　　　　　　　　　Bangalore, IND
**Cyber Security Engineer II/I/Intern: (May 2021 - Dec 2021)(Aug 2019 - May 2021)(Jan 2019 - Aug 2019)**
- ○ Led E4E business unit projects across all PI phases as a point of focal, and collaborated effectively with proj teams.
- ○ Developed detailed procedures for mobile & cloud-pentesting test cases, and conducted knowledge-sharing sessions on new tools, technologies, and test scenarios.
- ○ Conducted 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 which improved KPI of 30 percentage.

## EDUCATION

**Purdue University, West Lafayette** (MS - CS in information security)(Jun 2023 - Dec 2024) IN, USA
**Relevant Courses:** CS555-cryptography, CS526-Information Security, ECE69600HS-Hardware-Software Security
**Amrita Vishwa Vidyapeetham** (B.Tech - CSE 2015-2019)(CGPA - 8.09)　　　　　Coimbatore, IND
**Relevant Courses:** Information Security, Cryptography, Computer Networks, Data Structures and Algorithms, IoT.

## SKILLS

**Languages:** Python, Java, Bash, C, C++　**Certifications:** OSCP, CEH, Microsoft Azure Security Technologies (AZ-500)
**Technologies: Web app & API security pentesting** - OWASP Top 10, MITRE framework, Attacks like xss,ssrf etc
**Android & IOS Mobile pentesting** - Rooting, static code & dynamic analysis, reverse engineering etc.
**Cloud application pentesting** - Misconfiguration checks on Azure infra, Docker & Kubernetes and the best practices.
**Thickclinet application pentesting** - Log tampering, Dll injection, Reverse Engineering, process analysis etc.
**Hardware & Firmware pentesting** - Debug exposure, secure boot, reversing firmware, and sensitive exposure.

**Frameworks & tools:** Burp Suite, Nessus, Appspider, Metasploit, Kali Linux tools, Wireshark, Nmap, SQLMap, Nikto, gobuster, Frida, Xposed, mobSF, Androbug, UART, JTAG, USB Killer, Binwalk, sasquatch, kube-hunter, scout suite etc.

## Projects, Activities & Publications

**Publication:** Multi-Factor Authentication Scheme for Online Examination published on May 2018.
link: https://acadpubl.eu/hub/2018-119-15/4/783.pdf

**Guest lecture:** Guest talk on "CTF - learn, play & fun" in University of Wales Trinity Saint David on November 2020.

**CTF contributions:** Author challenges and host DarkArmy CTF (Web, OSINT & Blockchain). Blog/writeups for the challenges that are solved during participation of CTFs in the category of web, mobile, network & blockchain.

**E-commerce site:** Developed e-commerce website for a small-scale business on 2017 with 2 year support as a volunteer.

**OWASP Technical Member:** Providing technical expertise and guidance to other members of the chapter.

## ACHIEVEMENTS

**CTFTime:** Rank 5 in the country and 101 globally, contribute binary exploitation and reversing challenges. Involved in solving challenges during weekend CTFs.(-Sept 2020). Top 30 among 1000+ teams, Attack-Defense style CTF(InCTF-18)

**Certifications:** Offensive Security Certified Professional (OSCP), Nov 2021.
Microsoft Azure Security Associate AZ-500, April 2021.
Certified Ethical Hacker (V9), 2018.
Course Certification In Cisco Certified Network Associate(CCNA) ,2017.

**Awards:** 3 Bronze cash awards, 6 Bravo e-thanks awards in Honeywell and 2 tejori cash award in DEWA