Alwin George

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SKILLS

- **Skills**: Networking, Ethical Hacking, Vulnerability Assessment, QA Automation, API Testing, Functional Testing, Python, Bug Tracking, Test Case Design,Postman
- **Tools**: Wireshark, Nmap, Burp Suite, Metasploit, postman, Selenium
- **Operating Systems:** Linux (Ubuntu, Kali Linux), Windows (10, 11)
- **Soft Skills**: Problem-Solving Skills, Team Collaboration, Communication Skills

INTERNSHIP

Cybersecurity   March 2024

CipherSchools, Virtual

- Designed and developed an Advanced Firewall Application using Python and Flask.
- Implemented features like packet filtering by IP, port, and protocol type.
- Applied design patterns (Singleton, Strategy, Factory) to ensure scalability and maintainability.
- Conducted manual testing and basic automation to validate firewall rules.
- Explored OWASP Top 10 vulnerabilities to ensure secure design.

Tech – python, Flask

PROJECTS

Advanced Firewall Application: 1 Month

Built a firewall system with IP, port, and protocol filtering using Python & Flask.
- Used design patterns for modularity and tested filtering rules manually and through scripted inputs.
- Simulated attack inputs to assess secure handling.

Tech: Python, Flask, Html, CSS

Scientific Calculator Using Python: 1 Month

Developed a Scientific Calculator that provides a user-friendly interface for performing basic arithmetic calculations, square roots, exponentiation, trigonometric operations, and unit conversions (radian-degree conversion). The program also includes a loop feature that allows repeated operations until the user decides to exit.

Tech: Python

Keylogger: 1 Month

- Created a tool to detect suspicious keylogging behavior using process scanning.
- Added testing methods to simulate attacks and log detection accuracy.

Tech: Python,Html,CSS,ngrok

CERTIFICATES

- IBM Cybersecurity Analyst   October 2024
- Cybersecurity   June 2024
- Ethical Hacking Essentials   January 2024
- Software Testing Automation Specialization   March 2025
- Cloud Computing , NPTEL   May 2025

ACHIEVEMENTS

Participated in Hackathon: 2023- 2024

Among 2000+ participants and earned certificate

Achieved Mountaineer Rank on Salesforce Trailhead   2024-2025

Earned the Mountaineer badge and 32,000+ points on Salesforce Trailhead as part of the Developer Catalyst Plus program, demonstrating consistent self-learning and completion of multiple hands-on modules.

Attended Webinar by Offenso Academy: 2023-2024

Among 150+ participants and 3 highly qualified trainers

EDUCATION

Lovely Professional University   Punjab, India

Bachelor of Technology - Computer Science and Engineering; CGPA: 6. 87   *August 2022 – June 2026*

KRGPM Higher Secondary School   Odanavattom, Kerala

Higher Secondary; Percentage: 76%   *April 2020 - March 2022*

Carmel Residential Senior Secondary School   Kottarakara, Kerala

High School; Percentage: 69%   *April 2018 - March 2020*