# Alwin George

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## SKILLS

- **Skills**: Networking, Ethical Hacking, Vulnerability Assessment, QA Automation, API Testing, Python, Test Case Design, Postman,CRM
- **Tools**: Wireshark, Nmap, Burp Suite, Metasploit, postman, Flask, Open AI API
- **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

- **AI-Based Lyrics Generator App:**                                                                         1 Month
  AI-powered lyrics generator using GPT-2, Flask, and Flutter to create song lyrics based on user-selected genre and mood. Designed a responsive UI with animations and theme toggle. Implemented REST API to connect frontend with backend for creative control. Deployed using Firebase (frontend) and Railway (backend). Explored AI integration, fullstack development, and real-time text generation.
  **Tech :** Flutter, Dart, Flask, Python, REST API, GPT-2, Firebase, Railway

## CERTIFICATES

- IBM Cybersecurity Analyst                                                                                   October 2024
- Cybersecurity                                                                                               June 2024
- Ethical Hacking Essentials                                                                                  January 2024
- Digital Forensics                                                                                           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*