AVINASH A L

## <Linkedin:> <https://www.linkedin.com/in/avinash-al> Email:avinashachu1982[@gmail.com](mailto:ujjwaljain604@gmail.com)

## [Github: https://github.com/Avinash01409](Github:%20https://github.com/Avinash01409) Mobile:+91-7306899646

## 

# Skills

* **Cybersecurity Tools :** Kali Linux, Virtual Machines, Wireshark, Snort, OWSP ZAP
* **Security Concepts:** Threat Detection, Intrusion Prevention, Firewall Configuration
* **Languages**: java, python, C++, html
* **Frameworks**: HTML and CSS
* **Tools/Platforms**: kali linux,Virtual machines
* **Soft Skills**: listening, Team Player, Project Management, Adaptability

# Training

**Cipher Schools - Cybersecurity Internship** May 2023- September 2023

### **About:** Worked on the development and implementation of an Advanced Firewall to enhance network security. Gained hands-on experience in threat detection, intrusion prevention, and security policy enforcement.

### Designed and implemented firewall rules to filter malicious traffic and prevent cyber threats.

### Conducted vulnerability assessments and penetration testing to strengthen system security.

### Developed logging and monitoring mechanisms to track unauthorized access attempts.

### Collaborated with a team to research and integrate the latest cybersecurity protocols.

### **Tech Stack:** Linux, Python, Wireshark, Snort, IPTables, Firewalld, OWASP ZAP

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# Projects

#### Advanced Firewall – Network Security enhancement: March 2024-April 2024

#### Designed and developed an Advanced Firewall using Python and Flask to monitor, filter, and secure incoming and outgoing network traffic. Integrated features for threat detection, logging, and rule-based traffic filtering to enhance cybersecurity.

#### Built a web-based interface for configuring firewall rules using Flask.

#### Integrated IPTables and Snort for real-time traffic monitoring and intrusion prevention.

#### Implemented logging and alert mechanisms for detecting unauthorized access attempts.

#### Ensured compatibility with various network configurations for seamless deployment.

#### Tech Stack: Python, Flask, IPTables, Snort, Wireshark, OWASP ZAP

#### Brute Force Attack Prevention System: May 2024-June 2024

* Developed a **Brute Force Attack Prevention System** to detect and block multiple failed login attempts.
* Implemented **IP blacklisting and time-based lockouts** for enhanced security.
* Used **log analysis** to identify suspicious login patterns and mitigate risks
* **Tech Stack:** Python, Kali linux, Log Analysis

# Certificates

## Ethical Hacking Essentials – EC-Council by Coursera. January 2023-March 2023

* Cyber Security by cipher Schools. December 2023-March 2024
* Understanding Cloud Fundamentals by linkedIn May 2024-June 2024

# PARTICIPATIONS

# **Participated in a Cybersecurity Hackathon** Engaged in a hackathon focused on cybersecurity, showcasing skills in network security, ethical hacking, and threat analysis.

# Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.44** Since August 2022

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**Carmel Residential senior secondary school** Kottarakkara, Kerala

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### Intermediate; **Percentage: 80%** june2020 - March2022

**Carmel Residential senior secondary school** K0ttarakkara,Kerala

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### Matriculation; **Percentage: 88%** june 2008 - March 2020