

Alwin Shibu

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EDUCATION

Rajagiri School of Engineering and Technology
Bachelor of Technology in Computer Science and Engineering

Dec 2020 – May 2024
kakkanad, Kerala

EXPERIENCE

RedTeam Hacker Academy
Cybersecurity Internship

Dec 2024 – Present
Kochi, India

- Gained hands-on experience in penetration testing and vulnerability assessment.
- Utilized tools like Nmap, Burp Suite, Metasploit, and Kali Linux for real-time vulnerability exploitation.
- Participated in CTF challenges to develop offensive and defensive cybersecurity skills.

lpdevosolutions
Freelance

August 2024 – Present
Remote

- Led **lpdevosolutions**, delivering software solutions in Java, Python, C, and C++.
- Designed scalable applications and provided comprehensive technical reports for clients.
- Managed full project lifecycle, ensuring timely delivery and client satisfaction.

NeST Technologies
Intern

October 2022
Aluva, Kerala

- Contributed to IoT solution development with integrated hardware and software.
- Optimized sensor data collection, improving deployment speed by 20%.
- Resolved real-time issues in production-level hardware and software systems.

PROJECTS

SQL Injection Detection Tool (*Python, Requests, BeautifulSoup, urllib.parse*)

- Developed a web vulnerability scanner in Python using requests, BeautifulSoup, and URL manipulation to detect SQL Injection vulnerabilities by analyzing form inputs and submitting malicious payloads to target URLs.
- Implemented SQL injection detection logic by identifying common error messages in server responses, enhancing security testing by automating vulnerability scanning across multiple forms and web pages.

Machine Learning-Based Forecasting of Gold Prices (*Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn*)

- Developed a Gold Price Prediction model using Python, applying data preprocessing, statistical analysis, and Random Forest Regressor with Scikit-Learn, achieving high accuracy (R^2 score).
- Visualized data insights and model performance with Matplotlib and Seaborn, enhancing interpretability through comparison of actual vs predicted values.

Port Scanner (*Python, Socket Module, Sys Module*)

- Designed and implemented a command-line port scanner using Python, capable of scanning all 65,536 TCP ports on a target host.
- Utilized socket programming to establish network connections and identify open ports, demonstrating expertise in network communication protocols.
- Implemented comprehensive error handling mechanisms to ensure program stability and provide informative error messages for scenarios like hostname resolution failures and server unavailability.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, SQL, JavaScript, Bash.

Version Control: Linux, Git, GitHub, GitLab.

Cybersecurity Tools: Nmap, theHarvester, Burp Suite, Nikto, Nessus, SQLmap, Metasploit, Gobuster, Wireshark, GTF0Bins.

CERTIFICATION

- **Certified ethical hacker** – EC-Council (*pursuing*)
- **Certified Penetration Tester** – RedTeam Hacker Academy

ACHIEVEMENTS

- Ranked in the **Top 2%** on TryHackMe cybersecurity platform.