Alwin Shibu

Kochi, Kerala | +91 9037917371 | alwinshibu19@gmail.com | alwinshibu@linkedIn | alwinshibu@Github | alwinshibu.com

EXPERIENCE

lpdevosolutions August 2024 - Present Remote

Freelance

- Developed optimized, scalable applications in Python, Java, C, and C++, enhancing performance and reliability for
- Engineered robust system architectures, integrating efficient algorithms and data structures to support high-throughput, low-latency solutions.

RedTeam Hacker Academy

client-specific use cases.

Dec 2024 - May 2025

Cybersecurity Internship

Kochi, India

- Conducted Vulnerability Assessment and Penetration Testing (VAPT) on simulated network environments.
- Exploited vulnerabilities using tools like Nmap, Burp Suite, Metasploit, Nikto, and SQLmap.
- Practiced real-time attack scenarios through Capture the Flag (CTF) challenges.
- Drafted structured vulnerability reports including remediation recommendations aligned with CIS Benchmarks.

NeST Technologies October 2022

Intern

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.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Rajagiri School of Engineering and Technology

kakkanad, Kerala

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 (R² score).
- Visualized data insights and model performance with Matplotlib and Seaborn, enhancing interpretability through comparison of actual vs predicted values.

AI Tic-Tac-Toe using Minimax Algorithm (Python, Tkinter)

- Built a GUI-based game using Minimax algorithm with alpha-beta pruning.
- Designed efficient game logic for move evaluation and result detection.
- Integrated real-time UI updates with an intuitive user interface.

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.

 $\textbf{Cybersecurity Tools:} \ \ \text{Nessus, Burp Suite, Metasploit,ExploitDB,SQLMap,Wireshark,Ettercap,Hydra,Hashcat.}$

Familiarity: TCP/IP, DNS, HTTP,OWASP top 10,Docker

CERTIFICATION