

# 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  
Kochi, 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.

### Ipdevosolutions

*Freelance*

August 2024 – Present

Remote

- Co-founded and led **Ipdevosolutions**, 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.

### Speech To Sign Language Translator (*Python, Flask, NLP*)

- Developed a web-based tool for converting speech to Indian Sign Language using Python and Flask.
- Integrated NLP for text tokenization and filtering to improve accuracy.
- Designed a dynamic UI with real-time audio input support.
- Built a custom database for sign language mapping.

### 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.

### 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.

## TECHNICAL SKILLS

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

**Tools & Technologies:** Linux, Git, GitHub, GitLab

**Cybersecurity Tools:** Nmap, theHarvester, Shodan, Burp Suite, Nikto, Nessus, SQLmap, Metasploit, Netcat, Gobuster, Wireshark, GTF0Bins

## CERTIFICATION

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

## ACHIEVEMENTS

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- Ranked in the **Top 3%** on TryHackMe cybersecurity platform.