

Alwin Shibu

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EDUCATION

Rajagiri School of Engineering and Technology <i>Bachelor of Technology in Computer Science and Engineering</i>	Dec 2020 – May 2024 <i>Kochi, Kerala</i>
Vidyadhiraja Vidyabhavan HSS <i>Higher Secondary Education (Science Stream)</i>	Jun 2018 – May 2020 <i>Aluva, Kerala</i>
St. John the Baptist CSI EM School <i>Secondary School Leaving Certificate (SSLC)</i>	Jun 2017 – Mar 2018 <i>Aluva, Kerala</i>

EXPERIENCE

Intern <i>NeST Technologies</i>	October 2022 <i>Aluva, kerala</i>
<ul style="list-style-type: none">• Collaborated in a 10-day internship to deliver IoT solutions, integrating hardware and software.• Implemented modular and reusable code for sensor data collection, reducing deployment time by 20 percentage.• Troubleshoot production-level hardware and software issues in real-time	

PROJECTS

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.

Interactive Visual Novel Game (*Python, Ren'Py*)

- * Adapted Shakespeare's *Merchant of Venice* into a game with moral decision-making and story branching.
- * Integrated puzzles, AI visuals, audio, and riddles for enhanced player engagement.

AI Tic-Tac-Toe Game (*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

Languages: Java, Python, C, C++, SQL, JavaScript

Tools & Technologies: Linux, Git, GitHub, Bash, Machine Learning

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

Soft Skills: Teamwork, Creativity, Communication, Adaptability, Problem-Solving

CERTIFICATION

- **Certified Penetration Tester** – RedTeam Hacker Academy

ACHIEVEMENTS

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