

Praveen Neshamani

Computer Science Engineering Undergraduate

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Profile Summary

Computer Science Engineering undergraduate focused on Cybersecurity with a growing interest in Full Stack Web Development. Experienced in Linux, networking, web security, browser automation, and backend application. Continuously strengthening expertise in penetration testing, secure software engineering, and scalable web application development.

Education

Sri Ramakrishna Engineering College - Coimbatore	2024 – 2028
Bachelor of Engineering — Computer Science Engineering CGPA: 7.56 (Till 4th Semester)	
Bharatiya Vidya Bhavan's Vidya Mandir - Thrissur	2023 – 2024
Class XII – 83.4%	
Seventh-Day Adventist Higher Secondary School - Thrissur	2021 – 2022
Class X – 80%	

Technical Skills

Programming Languages: Python(Medium), Java(High), C(Medium)

Cybersecurity: Linux, Networking Fundamentals, Burp Suite, Wireshark, Nmap, Metasploit, Web Security, Penetration Testing, Vulnerability Assessment

Web Development: HTML5, CSS3, JavaScript, Node.js, Next.js, Django, REST APIs

Data Engineering & Analytics: Playwright, BeautifulSoup, Requests, ETL Pipelines, OpenPyXL, Pandas, Data Cleaning, Web Scraping, Browser Automation

Databases: MySQL, PostgreSQL, Supabase

Developer Tools: Git, GitHub, VS Code, Linux Terminal

Internships

Full Stack Developer Intern	May 2026 – June 2026
BenchMark, Coimbatore	

- Developed full-stack web applications using modern frontend and backend technologies to support real-world business requirements.
- Designed RESTful APIs and modular backend services using Node.js while integrating relational databases for efficient data management.
- Optimized application workflows by improving backend logic, database interactions and API communication.

Cybersecurity Intern	Oct 2025 – Nov 2025
CodeAlpha (Remote)	

- Performed vulnerability assessment and security analysis using Linux-based environments and industry-standard security tools.
- Worked with Wireshark, Burp Suite, Nmap and networking utilities to understand reconnaissance, packet analysis and web application security.
- Explored penetration testing methodologies including information gathering, vulnerability identification and attack surface analysis.

- Built automated data analysis workflows to process structured datasets and generate meaningful business insights.
- Performed data cleaning, preprocessing and transformation using Python to improve data quality and analytical accuracy.
- Developed reports and visualizations supporting data-driven decision making through statistical analysis and trend identification.

Projects

Meta Campaign Transparency Data Mining System

June 2026 – July 2026

- Engineered a stealth browser automation pipeline using **Python, Playwright and Camoufox** to automate large-scale extraction of campaign transparency data from Meta's dynamically rendered platform.
- Implemented a dual-path data mining architecture combining **GraphQL API interception** with automated DOM traversal to capture advertiser contact information, campaign metadata and hidden interface elements.
- Technologies: Python, Playwright, Camoufox, GraphQL, OpenPyXL, JSON, Multithreading.

State Election Commission Data Extraction Engine

July 2026 – August 2026

- Developed a scalable web crawling framework using **Python, BeautifulSoup and Requests** to extract and normalize candidate information across complex three-tier and four-tier election portal hierarchies.
- Implemented resilient scraping mechanisms including soft-block detection, automated cookie rotation, exponential backoff retries and resume-from-checkpoint functionality.
- Technologies: Python, BeautifulSoup, Requests, HTML Parsing, Data Cleaning, ETL, UTF-8 Processing.

SynaptiQ – Dynamic Learning Management System

March 2026 – Present

- Developed an AI-powered adaptive Learning Management System that personalizes learning pathways based on learner performance and engagement.
- Implemented Dynamic Probabilistic Knowledge Graphs, AI-generated quizzes and intelligent prerequisite recommendation mechanisms for adaptive course progression.
- Designed a modular full-stack architecture supporting scalable course management, assessment and student analytics.
- Technologies: Next.js, React, Node.js, Supabase, Python, AI APIs.

Achievements & Awards

- **First Prize** – Capture The Flag (CTF), Texperia Technical Event, March 2026.
- **First Prize** – Nigkathon Technical Hackathon, March 2026.
- **Third Prize** – Yuva Vigyan Innovation Competition, February 2025.
- **Top 3% worldwide** – in TryHackMe, earning 23+ badges, completing 132 hands-on security labs, and achieving a global rank of 74,056.

Certifications

- Skilled Navigator – TryHackMe, June 2026
- Pentesting Principles – TryHackMe, May 2026
- Introduction to Security Engineering – TryHackMe, March 2026
- Infosys Springboard – Soft Skills Training, February 2025
- Infosys Springboard – C Programming, May 2025

Language

- English – Professional working proficiency
- Tamil – Native or bilingual proficiency
- Malayalam – Limited working proficiency

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

I take full responsibility for the accuracy and authenticity of the details mentioned in this resume.

Signature