

# I Pavan Raja

Bengaluru, Karnataka, India

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## Objective

Motivated cybersecurity enthusiast seeking an entry-level position to help protect systems and networks. With expertise in cryptography, ethical hacking, and network security, my goal is to leverage my skills in penetration testing, threat hunting, and incident response. Ready to contribute to securing critical systems and mitigating threats while continuously advancing my knowledge.

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## Education

### Amrita Vishwa Vidyapeetham, Kerala, India

Master of Technology (M.Tech), Cybersecurity Systems, and Networks

July 2024 - July 2026

**Relevant Courses:** Cryptography Applications, System Security, Modern Web Application Development and Exploitation, Cyber Forensics, Network Security, Reverse Engineering, IoT Security.

### Sri Sairam College of Engineering, Bengaluru, Karnataka, India

Bachelor of Technology (B.Tech), Computer Science Engineering

June 2020 - June 2024

**Relevant Courses:** Data Structures and Applications, Analog and Digital Electronics, Design and Analysis of Algorithms, Microcontroller and Embedded Systems, Computer Networks and Security, Data Communication, Operating Systems, Unix Programming, Web Technology and Development, Mobile Application Development, User Interface Designing, Python, DBMS, Big Data Analytics, Artificial Intelligence, and Machine Learning.

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## Professional Experience

### Full-Stack Web Developer (Intern)

Varcons Technologies, Bengaluru, Karnataka

August 2023 - September 2023

- Led a team in developing dynamic web templates with secure coding practices, ensuring efficient database integration and exceeding client expectations.
  - Reduced vulnerabilities in development workflows.
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## Skills

- **Cybersecurity Expertise:** Vulnerability Assessment, Penetration Testing, Threat Hunting, Secure System Design.
- **Web Security:** SQL Injection, XSS, CSRF, Secure Web Development, OWASP Top 10 Mitigations.
- **Software Development Programming:** Good understanding of compilers, assemblers, and operating systems, including writing programs, debugging, and working with low-level system components.
- **Programming Languages:** Python (Advanced), Java (Intermediate), C (Intermediate), Bash (Intermediate).

- **Tools and Frameworks:** Burp Suite, Wireshark, Metasploit, x64dbg, Splunk, PE Studio, Autopsy, NIST Cybersecurity Framework.
  - **Computer Architecture & Hardware Understanding:** Strong knowledge of machine characteristics that affect software systems, including storage, processing, and I/O requirements.
  - **Incident Response:** Log Analysis, Threat Containment, Root Cause Analysis.
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## Certifications

- **IP Addressing and Subnetting - Zero to Hero**, Udemy (Issued Jan 2025)
  - **Mastercard - Cybersecurity Job Simulation**, Forage (Issued Jan 2025)
  - **Hardware Security**, Coursera (Issued Dec 2024)
  - **Computer Hardware Basics**, Cisco Networking Academy (Issued Nov 2024)
  - **Certified Ethical Hacking Masterclass: Beginner to Advanced**, Udemy (Issued Nov 2020)
  - **The Vulnerability Analysis Course**, Udemy (Issued Nov 2020)
  - **Reverse Engineering 1: x64dbg Debugger**, Udemy (Issued Oct 2020)
  - **Web Hacking for Beginners**, Udemy (Issued Oct 2020)
  - **In Progress:** Certified Ethical Hacker (CEH), Certified Network Pentester (CNPen).
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## Projects

- **WiFi Deauther and Packet Monitor:** Designed tools for real-time packet monitoring and deauthentication attacks to evaluate WiFi network vulnerabilities.
  - **Secure Web Application Framework:** Developed a secure web framework using Flask, integrating features like encrypted sessions, SQL injection prevention, and advanced authentication mechanisms.
  - **P4wnP1 - Pwnagotchi Enhancements:** Customized firmware for WPA/WPA2 network exploitation, improving password cracking capabilities.
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## Interests

- Capture the Flag (CTF) Challenges (Web Security, Cryptography).
- Exploring advanced secure hardware hacking techniques.
- Reading about cybersecurity advancements and international tech trends.