Jayaraj Patil

+91 7349426572 | jayarajvp2005@gmail.com | **LinkedIn** | **GitHub** | **Website**

Address 30, 22 main D cross Pipeline Road JC Nagar Kurubarahalli Bangalore Karnataka India pin-code 560086

PROFESSIONAL SUMMARY

Technically skilled IT support and system troubleshooting professional with hands-on experience in hardware setup, software integration, system maintenance, and network configuration. Adept at resolving technical issues efficiently, assisting users at all levels, and maintaining system integrity across desktops, networks, and applications. Strong foundation in cybersecurity and software, ensuring support is not only reactive but preventative and secure.

TECHNICAL SKILLS

- **IT Support & Troubleshooting**: System installation, software setup, network configuration, peripheral support, user guidance, remote assistance, log analysis, Database management.
- **Operating Systems & Platforms**: Windows, Ubuntu, VMware, WSL
- **Tools & Utilities**: Wireshark, Nmap, Burp Suite, Git, VS Code, PyCharm
- **Networking & Security**: Firewall setup, ARP spoofing basics, threat detection, VPN, DNS, Scapy, packet analysis
- **Scripting & Automation**: Python, Bash basics, simple scripts for task automation
- **Documentation**: Client documentation, invoice creation, ticket tracking

EDUCATION

Seshadripuram Arts, Science & Commerce College, Bengaluru Bachelor of Computer Applications (BCA) — *CGPA: 9.14*

Awarded 4 subject-level excellence certificates for academic excellence. Active member of Chathurya – Developers Club and Pragnya Science Forum, contributing to workshops, coding contests, and tech events. Demonstrated leadership and teamwork through active campus participation.

PROFESSIONAL EXPERIENCE

Freelance IT and network Support – *ImagineHealthcare, Karnataka* **|** *Dec 2024 – May 2025*

Provided secure remote and onsite support, configuring systems, routers, and DR setups. Integrated medical imaging tools with diagnostic hardware, ensuring data integrity and secure access. Maintained technical documentation and asset tracking with basic log checks for endpoint visibility. Assisted in troubleshooting network issues and implementing basic security practices to reduce system vulnerabilities.

INTERNSHIP

Research Paper: *"Analysing Security Vulnerabilities in Mobile Browsers"*– Seshadripuram College **|** *Dec 2024 – Mar 2025*

Conducted 25+ hands-on experiments to evaluate mobile browser risks like phishing, clickjacking, fingerprinting, and tracking. Used 100+ real phishing URLs from the PhishTank dataset, custom attack pages, and Python scripts for controlled testing. Analysed browser behaviour across 4 major platforms and proposed 5+ key security improvements to enhance user protection. Findings were compiled into a published research paper aimed at strengthening browser defences against real-world threats.

PROJECTS EXPERIENCE

1. **Firewall Log Analyzer Python:** Engineered a robust real-time firewall log monitoring tool using real-world log files from sources like Windows Defender. Processed 10,000+ entries daily with 50+ rule-based filters to detect intrusions, anomalies, and policy violations. Generated actionable, timestamped alerts—boosting SOC response time by 60% through intelligent parsing and threat classification.
2. **Advanced Network Packet Sniffer:** Collaborated with a team of 4 to develop a robust deep packet inspection sniffer using Python, deployed in Seshadripuram College lab for network activity monitoring. Captured and analysed 10,000+ live packets daily, decoding protocols like TCP, ICMP, and DNS using custom-crafted filters. Detected anomalies and suspicious traffic patterns, significantly enhancing lab network security and enabling in-depth security audits.
3. **Intruder Detection System IDS:** Led a team of 3 to develop a packet-based Intrusion Detection System using Scapy and Python, deployed for real-time monitoring in Seshadripuram College lab. Inspected 5,000+ packets/hour by analysing IP headers and payloads to detect unauthorized access and protocol misuse. Achieved over 90% detection accuracy on test datasets, significantly improving network visibility and early threat detection.
4. **Password Manager Application**
   Developed a Python-based Password Manager with GUI as part of a 2-member team, where I handled the backend development and encryption logic. Built using the cryptography library for AES encryption, the tool securely stores, retrieves, and manages user credentials through a user-friendly user interface. Successfully deployed in the Seshadripuram College lab environment, the application is used by over 60+ students and, resulting in a 45% reduction in password-related issues and promoting safer digital practices on campus.
5. **Event & Complaint Management System – Django, SQLite, HTML/CSS/JS, Ollama**
   Led a team of 2 developers to build and deploy a full-stack web platform for Seshadripuram College to manage event registrations and student complaints, featuring user authentication, admin dashboard, form validation, and email notifications; integrated a TinyLlama-based chatbot (Ollama) for basic NLP-driven student query handling.

ADDITIONAL INFORMATION

- **Languages Spoken:** English, Kannada, Hindi
- **Soft Skills:** Strong verbal and written communication, Patience and active listening during issue resolution, Team coordination and technical handholding, Clear documentation and reporting
- **Microsoft Cybersecurity Certification (Cyber Shikshaa)** – 75-hour hands-on training covering network security, system security, and penetration testing
- **Certifications: Communication & GD Skills** – TCS iON, **Introduction to MongoDB** – MongoDB University