Irfan Ahmad

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Professional Summary

A proactive and entrepreneurial 4th-year Computer Science student with a specialization in Cyber Security. Proven experience as a Co-Founder & CTO and System Administrator, leading the development and deployment of full-stack web solutions, IT infrastructure, and custom software. Expertise in secure system design, Linux server management, containerization with Docker, and DevOps automation. Seeking an internship or entry-level role to apply a robust technical skill set to solve complex challenges.

Education

Bachelor of Technology (B.Tech), Computer Science (IT - Cyber Security) • Expected July 2026 *Garden City University, Bangalore, India*

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Network Security, Public-Key Cryptography, Ethical Hacking, Advanced Networking.

Professional Experience

Co-Founder & CTO • CtrlWeb • *Jun 2024 – Present*

- Co-founded and scaled an IT solutions firm delivering web development, custom software, and infrastructure projects to SMEs and individual clients.
- Architected and deployed comprehensive web solutions, including a WordPress/WooCommerce site for **pioneerceilings.com** and a custom-themed e-commerce store for **Royalwood Furniture**.
- Engineered and maintained a custom, multi-outlet Point-of-Sale (POS) system for **E&P** using PHP/JS, managed with Git, featuring modular receipt templates and KOT support.
- Customized and deployed **OpenSourcePOS 3.4.1** for retail clients, implementing Role-Based Access Control (RBAC) and automating multi-client deployments with VCS.
- Deployed and managed self-hosted **n8n** instances on Linux servers, designing and implementing custom workflow automations to streamline client business processes.

System and Network Administrator • E&P IT • *Nov 2024 – Sep 2025*

- Managed containerized applications and workflows using Docker, enhancing deployment efficiency and scalability for internal and client projects.
- Administered Linux servers and managed a portfolio of 20+ websites on Hostinger Web hosting, handling all aspects of deployment, maintenance, and security.
- Served as the primary point of contact for all IT-related operations, including providing company-wide tech support, modifying the POS software, and SM Management.

System and Network Administrator Intern • Basik Marketing Pvt. Ltd. • *Jul 2024 – Sep 2024*

- Assisted in the maintenance and monitoring of network infrastructure, ensuring uptime and performance.
- Provided Tier 1 technical support for hardware and software issues, resolving user tickets in a timely manner.
- Contributed to the configuration and hardening of Linux servers, applying security best practices.
- Helped document IT systems and create network diagrams to improve the internal knowledge base.

Technical Skills

- **Security & Pentesting:** Kali Linux, PortSwigger Web Security (SQLi, XSS, CSRF), Wazuh IDS, DDoS Mitigation, Role-Based Access Control (RBAC).
- **Networking & Infrastructure:** Cisco CCNA Certified, Linux System Administration, TCP/IP, VLAN, DHCP, DNS, VPN Setup & Troubleshooting, Server Setup & Hardening.
- **DevOps & Automation:** Docker, CI/CD Pipelines, n8n Workflow Automation, Bash Scripting, Sendmail Configuration.
- **Programming & Frameworks:** Python, JavaScript, PHP, C++, CodeIgniter 3-4, Laravel, React.
- **Web & CMS:** WordPress (ACF, WooCommerce), Wix Studio, Custom Plugin Development.
- **Mobile Development:** Android Studio Fundamentals, Java/Kotlin.
- **Data Science:** scikit-learn, NLTK, Sentiment Analysis Pipelines.

Key Projects

- **OpenSourcePOS Customization and Contribution:** Spearheaded an end-to-end customization of OpenSourcePOS 3.4.1 for retail and hospitality clients. Engineered modular receipt and KOT templates with dynamic branding, and enforced strict Role-Based Access Control (RBAC) to restrict data access by outlet. Contributed enhancements back to the upstream project through detailed pull requests.
- **Full-Stack E-commerce & Website Development:** Led the design, development, and deployment of multiple client websites from the ground up. Key projects include **pioneerceilings.com** (WordPress/WooCommerce), **royalwoodfurniture.com** and **eandp.in** (Wix/Hostinger). Managed all aspects of the project lifecycle, including hosting configuration, theme customization, and SEO optimization that resulted in a 25% organic traffic increase for eandp.in.
- **Cyber Kill Chain Case Study:** Conducted an in-depth analysis of a multi-session DDoS attack, mapping the incident to the Cyber Kill Chain framework. Produced a technical report and a beginner-friendly presentation on the findings and mitigation strategies.

Certifications & Achievements

- **POS System Implementation:** Deployed custom POS software in several stores and restaurants across India, increasing operational efficiency through automated transactions, real-time inventory tracking, and detailed sales analytics.
- **Strategic Management** (Copenhagen Business School)
- **Cisco Certified Network Associate:** Introduction to Networks (CCNA)
- **Cyber Threat Hunting** (Infosec)
- **Threat Investigation** (Cisco)
- **Introduction to Data Warehouse Testing** (Infosys)
- **Usable Security** (University of Maryland)
- **PortSwigger Web Security Academy** – Core Labs Completed
- **Protecting Business Innovations via Copyright** (HKUST)
- Organized and facilitated university-level CTF (Capture The Flag) competitions and cyber-defense hackathons and eSports Tournaments.
- **Additional Coursework:** Completed university-level courses in diverse fields including **Sustainable Food Systems** (University of Illinois), **Fashion Design** (MoMA), and **Health & Fitness** (University of Edinburgh).

For a comprehensive portfolio, project demonstrations, and certificate verification, please visit damha.space.