

JOSEPH SAJU PAUL

OFFENSIVE & DEFENSIVE SECURITY | PYTHON FULL STACK DEVELOPER

Kochi, Kerala, India • +91 9946036745 • sajupaul235@gmail.com • www.linkedin.com/in/saju-paul-198aab357 •
https://github.com/sajupaul

SUMMARY

Detail-oriented **Python Full Stack Developer** and aspiring **Cybersecurity Specialist** with a strong foundation in scalable web application development, cloud systems, and security engineering. Proficient in building robust backend architectures using Python, Django, and REST APIs, while actively expanding expertise in offensive security (ethical hacking, vulnerability assessments) and defensive cloud security (Azure Kubernetes Service, container isolation). Proven track record in full-lifecycle software delivery, secure coding practices, and system optimization.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), HTML5, CSS3, SQL, Bash

Backend & Web Frameworks: Django, Flask, RESTful APIs, Node.js

Cybersecurity (Red Hat / Blue Hat): Ethical Hacking, Vulnerability Assessment, Penetration Testing Concepts, OWASP Top 10, Network Security, Access Control

Cloud & Infrastructure: Azure Kubernetes Service (AKS), Docker, Kubernetes, Linux (Debian/Ubuntu/Kali), Git/GitHub, CI/CD Fundamentals

Databases & Tools: PostgreSQL, MySQL, SQLite, Postman, Linux Command Line, VS Code

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Certified Python Full Stack Developer

Certified

Full-stack architecture, Django backend systems, RESTful API design, and frontend implementation.

Certified Ethical Hacker (CEH)

In Progress

Active training in penetration testing methodology, threat analysis, network scans, and security auditing.

Azure Kubernetes Service (AKS) & Cloud Security

In Progress

Container orchestration, cluster hardening, secure deployments, and cloud infrastructure defense.

KEY PROJECTS

Secure Full-Stack Web Application Architecture

- Designed and deployed a full-stack Python Django application incorporating secure authentication, role-based access control (RBAC), and encrypted data handling.
- Implemented RESTful endpoints and optimized SQL database queries, reducing data retrieval latencies by 25%.
- Integrated input sanitization and authorization checks to mitigate OWASP vulnerabilities such as SQL Injection (SQLi) and Cross-Site Scripting (XSS).

Cloud Infrastructure & Container Security Deployment (AKS)

- Configured and deployed containerized Python applications on Azure Kubernetes Service (AKS) using Docker and Kubernetes manifests.
- Applied network policies and container security best practices to enforce zero-trust access and minimize surface-area exposure.
- Automated deployment workflows using Git version control and modern CI/CD security checks.

Network & System Vulnerability Assessment Lab

- Executed controlled vulnerability scans and ethical hacking simulations in a virtualized lab environment using Linux security tools.
- Analyzed network traffic logs, identified misconfigurations, and authored remediation guidelines to patch security flaws across web servers.

EDUCATION

Bachelor of Computer Applications (BCA)

Graduated

Mahatma Gandhi University — Kerala, India