Jafar Shamsiyev | Fullstack Engineer | Baku, Azerbaijan

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Introduction

Cybersecurity-focused full-stack engineer with hands-on experience building secure cloud-native systems using, Python, Go, Rust, React, FastAPI and modern DevSecOps practices. Skilled in cybersecurity red teaming, infrastructure hardening, and CI/CD automation across AWS and GCP environments. Proven ability to ship production-ready systems, eliminate critical vulnerabilites, and bridge the gap between software engineering and security operations.

Projects & Experience

Hackeye.io - Cybersecurity Software Developer

- **Designed and developed a Dockerized CI/CD pipeline using Github Actions**, reducing deployment time by over 60% and enabling automated testing and monitoring across 3 production environments
- **Architected and implemented the platform's core backend system in Python with RESTful APIs,** resulting in a 35% increase in data processing throughput and significantly improved maintainability.
- **Integrated robust authentication and authorization mechanisms (JWT, Oauth)** into the application, aligning with industry best practices to harden the system against unauthorized access and session hijacking.
- **Optimized MongoDB queries and indexes,** reducing API response times by up to 50% and improving database scalability for high-traffic usage
- **Led infrastructure security hardening efforts,** conducting code audits and implementing automated CVE scanning pipelines,

reducing known vulnerabilites from 100+ to single digits within a sprint cycle.

Trionet – Cybersecurity Researcher

- **Developed Python scripts for automated vulnerability scanning and OSINT-based threat correlation,** reducing manual analysis time by over 40%
- **Performed in-depth malware behaviour analysis using tools like Wireshark, Cuckoo Sandbox, and IDA,** uncovering obfuscated payload delivery patterns used in phishing campaigns.
- **Led threat Intelligence research on malware trends and emerging attack vectors,** publishing weekly briefs that informed internal blue teams and improved SOC response playbooks.

Mopsn – Founding Engineer

- **Designed and maintained Flutter-based mobile apps and Flask/FastAPI-powered backend,services,** ensuring cross-platform compability and smooth performance across Android and IOS.
- **Maintained and tuned MSSQL databases,** optimizing queries, indexing strategies and scheduled backups for improved reliability and performance.
- **Hardening application security by implementing input validation, rate limiting, and token-based authentication(JWT),** significantly reducing the attack surface.

Education

[Baku Business University](#) – **Computer Science** – **Bachelors**

- Relevant coursework: Mobile Development, Java Programming, Python Programming, Cybersecurity, Software Engineering, Database Management
- Developed practical skills in mobile app development and backend programming with Java and Python
- Gained a solid foundation in security practices for software development and systems protection

Azerbaijan Cybersecurity Center ([akm.az](#)) – Certification

- Studied a wide range of **cybersecurity topics**, including **Python programming**, **networking**, **OPSEC**, and **security gateways**.
- Gained practical experience in **Pentesting** with a focus on **Active Directory** and **wireless networks**.
- Learned **Linux security**, including **Linux for Red**, and **PowerShell** for scripting and automation.
- Conducted hands-on exercises in **Red Team operations**, **network security**, and **incident response**.
- Developed skills in **Active Directory management** and **penetration testing** to identify and mitigate security vulnerabilities.

[Państwowa Akademia Nauk Stosowanych w Nysie](#) – **Exchange Program** – **Computer Science**

- Studied programming in Python and Java, building strong foundations in software development.
- Gained practical knowledge in database management and data structures.
- Learned the fundamentals of Artificial Intelligence, including machine learning algorithms and their applications.
- Developed problem-solving and analytical skills through hands-on coding exercises and projects.

Skills

- Programming Languages: Python, Java, SQL, Typescript, Node.js, Rust, Go, React

- Cybersecurity: Network Security, Penetration Testing, Incident Response, OPSEC, Wireless Pentesting, Active Directory Pentesting, Malware Analysis

- Databases: MSSQL, MongoDB, PostgreSQL, MySQL, Supabase, Firebase

- Cloud Platforms: AWS, GCP

- Operating Systems: Linux, Windows, UNIX

- Tools and Frameworks: Docker, Git, JIRA, CI/CD, Agile

References

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