Nir Alon

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Summary

Software Engineer specializing in backend systems, distributed architectures, and cybersecurity. Build secure, scalable cloud solutions using Python and Go. Known for clear communication and strong customer collaboration. Focused on writing clean code and delivering solutions that align with user needs and security best practices.

Experience

Software Engineer, Freelance, Jan 2025 - present

- Providing cloud infrastructure solutions for small businesses, accelerating supply chain workflows through implementation of cloud tools and automations.

- Developing lightweight microservices and client-server architectures using gRPC in Python and Go, enabling seamless communication across distributed systems.

Infrastructure Engineer, Full-Time, Appdome, Dec 2021 - Dec 2024

- Delivered tailored security solutions by collaborating across teams to design modular security components, enabling customers to rapidly and flexibly meet unique security requirements.

- Enhanced agility and deployment flexibility by transforming monolithic applications into microservices using containerization and cloud-native technologies, enabling rapid scaling and adaptation in response to evolving customer needs.

- Spearheaded the development of a cloud-based mobile security automation suite that simulates realistic cyberattacks on mobile apps. This suite integrates advanced cybersecurity tools with elastic data analytics to enhance product reliability, improve threat detection, and provide actionable insights for proactive security measures.

Technical Support Engineer Intern, IBM, Oct 2018 – Jan 2021

- Maintained end-to-end security compliance for Linux-based systems, including vulnerability assessments, patch management, and adherence to security standards.

- Partnered with engineering teams to troubleshoot and resolve technical issues, reducing downtime and improving overall system reliability and developer productivity.

Projects:

- Built a containerized ML-based WAF to detect XSS and SQLi, with Flask frontend and orchestration API.

- Built a Go backend using OpenAI API for a resume-based conversational Q&A service.

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Education

Bachelor of Science in Software Engineering, Afeka Tel Aviv, 2017 - 2021

Minor: Cybersecurity.

Associate degree in computer technology, ORT Tel Aviv, 2008 - 2010

Minor: Electronics.

Skills

Programming Languages:

Python (primary), Go (primary), Bash, Protobuf, Java (familiar), JavaScript (familiar), React (familiar)

Frameworks & Libraries:

Flask, FastAPI, Django, Spring Boot, Pytest, gRPC, REST

Platforms and Technologies:

Windows, Linux, macOS, Multithreading, Asyncio, Coroutines, ELK Stack

AI Frameworks & Tools:

OpenAI API, TensorFlow, scikit-learn, Kaggle, CNN, LLM, ML

Cloud & DevOps Tools:

Docker, Kubernetes, Jenkins, CI/CD, Terraform, AWS, GCP, Azure DevOps, GitHub Actions

Security Tools:

Semgrep, SonarQube, Trivy, Dependabot, Terrascan, Checkov, CloudTrail

Security Practices:

SAST, SCA, CVE Management, OWASP Top 10, IaC Scanning, Secure CI/CD Integration

Mobile & Device Management:

Intune, Airwatch, UIAutomator2, XCUITest, Appium, iOS, Android, WebdriverIO

Collaboration & Communication:

Collaborative mindset, fast learner, adaptable, reliable, effective communicator, team-oriented, code reviewer