Shlomi Domnenko   Backend & Infrastructure Software Engineer

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Experience

Meta, *Production Engineer*   07/2022 – 10/2022 | Tel Aviv
Facebook Lite Group, Service Infrastructure Team
- Responsible for scalable, production systems, with more than half-billion users across 14 regions, writing critical backend infrastructure code.
- Optimized Facebook Lite backend server architecture by leading the migration of services from Apache Mina to Netty framework in Java, resulting in a 30% decrease in network latency. Successfully used Netty multiplexing pipelines and increased network performance
- Worked on monolithic project using Mercurial SVC, learned to search for internal solutions, optimize and test code, fix large merge conflicts & use Tupperware (in-house alternative to Kubernetes).

Bank Hapoalim, *Backend Engineer*   01/2022 – 07/2022 | Tel-Aviv
Backend Java Developer, responsible developing the business website
- Developed in RESTful environment and was responsible for API changes using Java Springboot, removing legacy API safely, fixed end-user issues and delivered results as per schedule. Received positive feedback from customers.
- Communicated clearly between front-end team, mainframe team, QA team, and product manager. Organized issues, solutions, feedback, ideas, and progress.

Check Point, *Security Analyst*   04/2020 – 01/2022 | Tel-Aviv
Threat Response Core Group, Research & Development
- Threat analysis, vulnerability analysis, Check Point gateway & firewall (IPS/IDS), traffic & network analysis
- Raised protection score from 82% to 94% for customers for selected CVEs, passing critical 'Security Effectiveness Test' by researching threats & adding new protections, later customer signed contract.
- Hands-on Gitlab CI/CD, deploying Jenkins jobs, deploying docker containers, VMs setup, networking protocols research, malware research, OSINT, incident report & threat hunting.
- Python automation that creates anti-bot protections. Used Jenkins, OracleSQL, docker on daily basis & analyzing Kibana customer's data with elastic search. Communicated with other companies for support with API (VirusTotal)

Education

Master of Science (MSc), Computer Science, *The Open University of Israel*   2020 – Today
Currently attending. GPA: 89

Bachelor of Science (BSc), Computer Science & Mathematics, *Ariel University*   2017 –2020
Graduated. GPA: 82. Cyber Security Program

Skills

Programming Languages: Python, Java, C, C++, JavaScript
Automation: Linux, Docker, Kubernetes, Jenkins, Gitlab CI/CD
Big Data: PostgreSQL, SQLite, Oracle SQL, Splunk, Kibana
Cyber: Metasploit, Wireshark, Network Threats Analysis, OWASP Zap, Snort, YARA, OSINT

Projects

nes-emulator, Emulator written in Java for the Nintendo Entertainment System that can play games
Emulated 6502 CPU, and the 2C02 PPU (graphics processor) that can play NES games such as Super Mario Bros.

seefood-app, A Silicon Valley parody app that takes picture with phone and tells you if your food is a hotdog or not hotdog.
The app was built using Android SDK & Java and communicates with the server, the server runs Flask and ResNet-50 classifier (written in Python).

sorting-algo-visualizer, Visualize sorting algorithms, it also plays sounds while the algorithm is running
Written in pure JavaScript. Includes quick sort, radix sort, heap sort, and more. You can try it yourself, click on the link.

shlomios, A basic x86 operation system written from scratch that runs C kernel
Written bootloader in assembly and the kernel in C. Runs on QEMU and BOSCHS emulators. Can write to VGA display.

chip-8-emulator, Emulator for CHIP-8 (the 1802 microprocessor), written in Java
The emulator can play chip-8 games and programs. I emulated the architecture of 1802 microprocessor (instructions, registers, memory, input).

e-xterm, Cross platform electron-based SSH, WSL client with SFTP support, written in Electron, Typescript, Node.js
A client that supports SSH, SFTP, Telnet protocols with custom bookmarks and internal terminal, with drag-and-drop file transfer.