Shlomi Domnenco   Software Engineer

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Software and cyber security engineer with 3 years of experience and a master's degree in computer science in AI/ML. Successfully implemented and scaled software projects for 500 million users. I'm looking for roles in Cyber Security and Software Engineering.

Experience

Meta, *Production Engineer*   2022
Facebook Lite Group, Service Infrastructure Team
- Led the migration from Apache Mina to Netty framework in **Java Spring Boot**, **achieving a 30% reduction in network latency**. Optimized the Facebook Lite backend architecture by **writing critical infrastructure code**, using Netty multiplexing pipelines to improve API gateway performance and **scale systems for over 500 million users** across 14 regions.
- Worked on monolithic project using Mercurial SVC, learned to search for internal solutions and ask questions in **open-source projects**, optimize and test code, **fix large merge conflicts and use Tupperware** (in-house alternative to Kubernetes) for progressive rollout of changes.

Check Point, *Security Analyst*   2020 - 2022
Threat Response Core Group, Research & Development
- **Raised protection score from 82% to 94% for customers** for selected CVEs and beating competitors by researching threats and creating new protections for customers, **resulting in a customer signing a 15M$ contract** and I got a bonus.
- Responsible for researching and creating protections against CVEs in the **Check Point SIEM IPS/IDS** by malware research and **network traffic analysis**, and using tools such as **Metasploit, Wireshark, OWASP, Burp, Snort, YARA rules**. Closely worked in **Linux, Windows environments**.
- Automated the **creation and deployment of anti-bot protections with Python, Gitlab CI/CD**, deployment of **Jenkins jobs and docker containers**, and VM setup in **VMWare vSphere**. Used **SQL** and analyzed **Kibana** customer's data with **elastic search** to find false positives.
- Gained significant knowledge in various **networking protocols**. Communicated with other companies for support with API (**VirusTotal**)

Education

Master of Science (MSc), Computer Science & Mathematics, *The Open University of Israel*   2020
GPA: 90. <u>Research project</u>: research & develop image synthesis machine learning model based on **Stable Diffusion**.

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

Studying CompTIA Network+, CCNA certifications as well as AWS Cloud Practitioner.

Skills

Python, Java, JavaScript, TypeScript, Gitlab CI/CD, Docker containers, and developing machine learning models using PyTorch & Tensorflow.

Projects

interactive_digit_interpolation, Created and trained an AI model that learns to interpolate between two images
The model learned to interpolate between to images (creates a new image in between them). The Variational Autoencoder created with Python, PyTorch and Tensorflow boards.

ocr-font-classifier-model, Machine learning model that predicts the types of fonts of text in images with 96% validation accuracy
Written in Python with TensorFlow.

interactive_digit_classifier, Machine learning model that predicts the digit of the user's drawn image
The user draws on screen and the model predicts the digit the user has drawn interactively. Written in Python, PyTorch.

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. 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.

portfolio, My portfolio website, which is available at the top of this resume, or here
It's my portfolio website, showing my research, projects, resume and blog. Written in node.js, TypeScript, JavaScript, Vite, React JS, Tailwind.