

## ABOUT ME

**Versatile Software Engineer** with **3+** years of experience tackling complex challenges across the **aerospace** and **national security** landscape, utilizing both **C++** and **Python**. Adept at navigating demanding environments and stringent requirements, I'm eager to contribute my adaptability and German skills (B2-C1) to a new challenge in **Germany**.

## DIGITAL SKILLS

C/C++ | Python | Embedded | Linux | Git | Agile | Java | SQL | JavaScript | Kubernetes | Docker

## WORK EXPERIENCE

03/2021 – 01/2023 Kfar saba, Israel

### 5G NR-STACK ENGINEER PARALLEL WIRELESS

- Designed and implemented new features for a real-time embedded gNB system, including enhanced handover procedures and improved QoS mechanisms.
- Utilized object-oriented C++ and multi-threaded Linux to optimize performance and meet strict latency requirements. Reduced average handover time by 25% and data transfer latency by an average of 20 milliseconds through targeted code optimizations.
- Developed a Python-based network simulation model to proactively identify potential bottlenecks and vulnerabilities in the gNB system. This tool enabled us to predict system behavior under various load conditions and test the effectiveness of implemented optimizations before deployment.

08/2019 – 02/2021 Karmi'el, Israel

### REAL-TIME EMBEDDED SOFTWARE ENGINEER RAFAEL

- Designed and implemented critical real-time embedded functionalities in object-oriented C++ for an advanced defense system, including signal processing, control algorithms, and the calibration module.
- As part of the main mission computer team, oversaw the integration and coordination of various modules, including vision, calibration, navigation, and others. Utilized telemetry to monitor missile logs in flight for debugging and troubleshooting purposes.
- Automated 80% of manual testing tasks with Python, leveraging pandas and NumPy to streamline data analysis and validation. This resulted in a 20% reduction in overall testing time and improved accuracy.
- Implemented a Jenkins-based CI/CD pipeline to automate builds, deployments, and regression testing, ensuring consistent quality and reducing manual effort.

03/2015 – 03/2018 Tel Aviv, Israel

### PRODUCT MANAGER INTELLIGENCE CORPS OF THE IDF

- Managed the Agile implementation of 3 NLP & ML projects, collaborating with cross-functional teams to ensure successful project delivery on time and within budget.
- Secured a contract for a cutting-edge translation tool that significantly improved efficiency and accuracy, replacing manual tasks and reducing overall project time.
- Led the winning team at the 8200 Hackathon, developing a hitchhiking app that revolutionized transportation for soldiers. The app prioritized safety and security by providing a centralized platform for organized and trusted rides.

## PROJECTS

### Twitter Scraper

**Python**, using **Flask**, and **REST API**, connected to **SQLite**. Reverse engineering of Twitter without using their official API.

## De-Bruijn Graph Analyzer

---

**Python**, using **graphviz** and **networkx**. This project aimed to find all decompositions of a UPP graph (Unique Path Property).

## Web ATM

---

**JavaScript** using **Express and Node**, deployed on **Azure** using **Docker** and **Kubernetes**.

## EDUCATION AND TRAINING

---

03/2019 – 12/2021 Haifa, Israel

**B.SC. IN COMPUTER SCIENCE WITH FOCUS ON BIOINFORMATICS** Technion - Israel Institute of Technology

---

Dean's list of honors for scholastic achievements during the Winter semesters of 2018/19 and 2019/20.

## VOLUNTEERING

---

02/2023 – 08/2024 Tel Aviv, Israel

**Paramedic at MDA (Israel's National Emergency Organization)**

---

## LANGUAGE SKILLS

---

Mother tongue(s): **HEBREW**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>GERMAN</b>	B2	B2	B2	B2	B2

---

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*