System Engineer

**Hillel Merran**

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**Summary**

* **4 years of experience** asa **System Engineer** - **IAF**
* Experience in leading **multi-disciplinary projects** from **design** to **production/integration** and working with data in order to create new **product features.**
* Experience with **communication systems** based on Line of Sight, and **RF** **communication** technologies.
* Deep system and **networking knowledge** - **TCP\IP**, **network security**, **LAN**, **WAN**, etc.
* Knowledge of **statistical tools**, performance analysis, and **Data Science**.
* Fluent in **Python**, **SQL**,R, C/C++, **Matlab.**
* **Bachelor’s degree in** **Computer Information Systems, Technion.**

**Experience**

2018 - 2022 System Engineer, Israel Air Force - Hakirya (TLV)

* Leading **multi-disciplinary projects** in navigation and precise time fields **from design to production**.
* In charge ofa **big data project** delivering reports on **Tableau** impacting daily operational units’ decision-making.
* Communicated technically to a range of both **external** and **internal stakeholders**.
* **Analysis of system architectures**, needs and constraints comprehension, vulnerabilities identification,**global system** understanding, planning & executing **tests**/**verification**/**integration** process.
* **Designed solutions** of synchronization for defense systems and improved **synchronization metrics** by one order of magnitude.
* Collaborated with **cross-functional teams** - data scientists, analysts, network engineers, cyber security specialists, etc.
* Deep **understanding of the protocol and network architecture constraints**, L2 and L3 components specs (including **military encryptors**), planning and executing trials of different solution configurations.
* Knowledge expert in **network time distribution** – technologies, system requirements, and experiments.
* Defining military standards requirements for developing and testing GPS vulnerabilities-proof systems – anti-spoofing test process lead with SAMLA.
* **Awarded** for the contribution to the subject of navigation and time in the *Hetz* weapon system with dedication, professionalism, and care.

**Other work**

2023 -Present **Data Scientist**, Freelance

* Exploring solutions for real-life problems using **machine learning** and **deep learning** models.
* Writing **Python scripts** to extract data from **databases**.
* **Data analysis** and **visualization** of data, identifying **data gaps,** and suggesting solutions.

2013 -2020 Psychometric tutor, Icone Psychometrique

* The role required creativity, responsibility, high teaching capabilities, and self-investing.

**Education**

2020  **B.Sc. Computer Information Systems** (Computer Science), **Technion**

**Technical Skills**

* **Multi-disciplinary project management**.
* **Python**, **SQL**, **R, C/C++, Matlab.**
* Knowledge in Machine learning and **Deep learning** packages - **NumPy**, Pandas, **Scikit-learn**, XGBoost, **TensorFlow**, **Keras**, OpenCV, **Matplotlib**, **Seaborn**.
* Data visualization tools - **Tableau**.
* **Microsoft Office** programs.
* Knowledge in **networks** and **Cyber security**.