Aviad Fux

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Domains of Interest

Data Science, Artificial Intelligence, Deep Learning, Machine Learning, Cyber Security

Education

M.Sc., Computer Science, 2019
Bar-Ilan University, Ramat-Gan, Israel

- Area of Specialization: Deep Learning, Machine Learning, Cryptography, Cyber-security
- Completed parallelly while working with Intel
- Pre-requisites completed in 2015-2017

B.Ed., Mathematics and 'Tanach', 2014
Shaanan college, Haifa, Israel

Work Experience

Deep Learning Software Developer, Samsung Electronics Israel R&D. 2019 - present

I am part of the STF (Samsung TensorFlow) team. We specialize in quantization, optimization and preparation of neural networks for hardware usage. Our main focus is vision networks. In addition, the team does the integration between algorithms, architecture and HW teams. Python is our main language, using all of the relevant packages (TensorFlow, Pytorch, Numpy, Matplotlib and etc).

Research assistant, AIM (Intelligent Agent, Interaction & Modelling Lab), Bar-Ilan University. 2018 - 2019

Supervisor: Prof. Sarit Kraus

Project:

> Smart Shield Project:
> The project solves the complex problem of searching and capturing grounded attackers by a team of defenders under uncertainty. The defenders are composed of Unmanned Aerial Vehicles (UAVs); formally called SCOUT (Search and Capture of Goal Oriented Uncertain Targets). The solution is composed of multiple phases, including the formulation of both attacker and defender models, the creation of an optimization framework for a quick and successful capture of all attackers, and an empirical evaluation of the solution. SCOUT was implemented using both CPP and Python (using libraries such as numpy, pandas and matplotlib).

Software Developer, Intel Corporation. 2016 - 2018

I was a part of the WiGig group, with multi-disciplinary projects including: 5G, Docking, VR etc. My main role was in development of the WiGig automation infrastructure using C, and feature integration. This involved development of multiple code threads, using well known design patterns and rigorous debugging.

Mathematics Teacher, 'Or Avner' High School. 2014 – 2016

> Instill mathematical thinking in students with minimal background, culminating in their successful graduation.

PROGRAMMING SKILLS   Python, C++, C#, C

MILITARY SERVICE   **Combat Soldier**, Givati, Shaked Regiment. 2008 – 2011
Authorizations:

- Sergeant's course.
- Commander of "Gil" – guided missile system.