AmitaiAssayag

Aut viam inveniam aut faciam - I will either find a way or make one

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📻 4X5LP

Programming
- C# **/** C++ **/** Python
- MATLAB **/** Arduino
- JS **/** SQL

Skills
- ML **/** Computer Vision
- Algorithms **/** NumPy
- Pandas **/** Research
- Physics **/** Git

Life Skills
Amateur Radio Operator
- Licensed to build, own and operate radio station equipment

Army
- Combat engineer
- Medic

Other
- Bartending
- Electronics
- Piano

Languages
- Hebrew-Native
- English-Fluent
- French-Basic

Education

2017–2019	**Masters** of Mathematics	The Hebrew University of Jerusalem

- **Thesis** Generators for Finite Index Subgroups of $SL_n(\mathcal{O}_k)$
- **Award** Dean's list for the first year.

2013–2016	**Bachelor** of Mathematics & Physics	The Hebrew University of Jerusalem

Certifications

2020	**Specializations & Certificates** on Coursera

- **Over 30 Specializations & Certificates (465+ Hours)** in AI, ML & Data Science

Full list is available here

2012–2013	**Professional Certificate** in .NET Development	John Bryce College, Matrix

Self Employed

2020
- **Over 16 years of experience in coding in a plethora of languages.**
- **My portfolio is at ami-a.github.io, here is a taste:**
    - **Track Everything** — Python (SciPy, TF, OpenCV)
      A robust detection and classification(D&C) models' enhancer, it takes any python (D|C) models and gives them tracking and statistical capabilities.
    - **MAFAT Radar Competition** — Python & MATLAB
      A competition by the Ministry of Defense to identify targets on a Doppler-Pulse Radar, using Signal Processing and ML techniques.
    - **Cops Detection and Tracking** — Python (TensorFlow, OpenCV)
      A ML pipeline that detects various law enforcement personal by using CNNs and tracking algorithms to gather statistics.
    - **Independent Quadcopter Security System** — C#, C++, Python & Arduino
      An autonomous drone that uses sensors and a patrol map.

Industrial Experience

2020–Now	**AGAT Software**	Cybersecurity and compliance company

Head of AI R&D
- Managing and developing AI projects, from idea all the way to the customers amongst them:
    - **Multi-Platform Login Security Monitor** — Python (SciPy, NumPy, Pandas)
      An ML anomaly-detection based program that identifies abnormal logins in RT, explains the anomalies and assesses their severity.
    - **Chat Emotions Detection** — Python (TF, NLTK, Transformers, BERT)
      An NLP text classification to emotions solution, that was added to the company's product, targeting chat platforms such as Teams, WebEx etc.
    - **Action Related Dialogue** — Python (TF, spaCy, Transformers, BERT, SVM)
      A multilevel NLP assistant, that identifies and sets assignments and reminders based on transcripts of multi-party conversions.
- Guiding and leading the AI R&D team

2014–2020	**The Hebrew University of Jerusalem**

Academic Assistant in the Einstein Institute of Mathematics
- Grading students' papers and exams
- Teach and guide students during my office hours

2016	**AGAT Software**	Cybersecurity and compliance company

Programmer & Project Supervisor
- Developed, integrated and upgraded solutions for security vulnerabilities caused by connecting employees' mobile devices to the company's network
- Managed and built solutions for integrating security programs with Mobile Device Management (MDM) systems, while managing and coordinating 3 programmers
- Invented solutions for integrating the custom RP server, that was developed by AGAT, with other reverse proxy servers like the BigIp and NetScaler
- Built tools (mainly in C# & Python) for monitoring and diagnosing the company's RP server (SIP & HTTP/S protocols, timing optimization, certificates & encryption)