

# AmitaiAssayag

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

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## 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 set 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)