

AmitaiAssayag

Algorithms, Mathematics & Physics

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Programming

- C# / C++ / Python
- MATLAB / Arduino
- JS / SQL / Cypher

Databases

- MySQL / Neo4j
- MongoDB / SQLite
- Amazon DynamoDB
- Microsoft SQL Server

OSs & IDEs

- Windows / Linux
- Visual Studio / MATLAB
- Visual Studio Code
- PyCharm / CodeBlocks
- Arduino / Mathematica

Skills

Amateur Radio Operator

- Licensed to build, own and operate radio station equipment
- Currently building an antenna to communicate with satellites and space stations

Army

- Combat engineer
- Medic

Languages

- Hebrew-Native
- English-Professional
- 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

Personal Experience

2020

- **Over 15 years of experience in coding in a plethora of languages.**
- **Design and build challenging and innovative projects.**
- **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 Defence 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

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** Software security company
Programmer & Project Supervisor

- Developed, integrated and upgraded solutions for companies that have data 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
- Acquired full control and a comprehensive understanding of the leading MDM systems on the market, such as Good, MaaS360, XenMobile, MobileIron & AirWatch
- Invented solutions for integrating the costume reverse proxy 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 problems in the company's reverse proxy server, like the SIP & HTTP/S protocols, timing optimization, certificates & encryption

2014 **BRACHA VEHAZLACHA** Software company
Programmer

- Designed and built a web system using ASP.NET & MySQL Server, to manage marriage files, for the Israel Religious Councils