

# AmitaiAssayag

Algorithms, Mathematics & Physics

☎ 050-931-1121  
✉ amital.a.job@gmail.com  
🌐 ami-a.github.io  
📄 linkedin.com/in/amitaia  
🏠 4X5LP

## 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

- **Certificates** in Machine Learning by *Stanford*, Practical Deep Learning by *Intel*, Computer Vision by *The University at Buffalo*
- **Specializations** in TensorFlow, Deep Learning both by *deeplearning.ai*
- **Specializations** in Advanced Data Science, AI Foundations for Business, Key Technologies for Business all 3 by *IBM*
- **Professional Certificate** in Applied AI by *IBM*

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](https://ami-a.github.io), here is a crumb of examples:**
  - \* **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