

# Amitai Assayag

Algorithms, Mathematics & Physics

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## Programming

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

## Databases

- MySQL / Neo4j
- MongoDB / Oracle
- 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

### Mixologist & Bartender

- Bartender certification
- Active in the whisky community
- Experienced bartender (Glen Whisky Bar)

## 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 in the first year for 98.3 GPA

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*
- **Specialization** in TensorFlow by deeplearning.ai

2012–2013 **Specialization** in .NET Development

John Bryce College, Matrix

## Personal Experience

I have over 15 years of experience in coding in a plethora of languages. I design and build many challenging & innovative projects. You can find some of them in my portfolio at [ami-a.github.io](https://ami-a.github.io), here are some examples:

- **Cops Detection and Tracking System** Python (TensorFlow, OpenCV)  
*A ML pipeline that detects various law enforcement personal by using CNNs and tracking algorithms to gather statistics.*
- **Independent Drone Security System** C#, C++, Python & Arduino  
*An autonomous drone that uses sensors and a patrol map.*
- **Personal Voice Activated Virtual Assistant** C# (OpenNLP, TTS)  
*A voice activated virtual assistant similar to Alexa.*
- **Security Face Recognition Software** C#, C++ (OpenCV), Arduino  
*A face recognition program that compares and matches faces.*

## Industrial Experience

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

Academic institute

*Academic Assistant in the Einstein Institute of Mathematics*

- Grading students' papers and exams
- Teach and guide students during my office hours
- Built C# programs that assist with the job tasks

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 a solution for integrating a security program 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 the company, with other reverse proxy servers like the BigIp(F5) and NetScaler(Citrix)
- 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