

Amitai Assayag

Algorithms, Mathematics & Physics

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🏠 4X5LP

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
- Experimented with cocktails, molecular mixology and spirits at the Glen Whisky Bar

Languages

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

Education

2017–2019 **Masters** of Mathematics (90.8 GPA)

Hebrew University of Jerusalem

- **Category** Algebraic & Topological Group Theory
- **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 (88 GPA)

Hebrew University of Jerusalem

Certifications

2020 **Specializations & Certificates** on Coursera

- **Certificate** in Machine Learning by Stanford University
- **Certificate** in Practical Deep Learning by Intel
- **Specialization** in TensorFlow by deeplearning.ai
- **Certificate** in Computer Vision by University at Buffalo

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, here are some examples:

- Independent Drone Security System C#, C++, Python & Arduino
- Personal Voice Activated Virtual Assistant C#
- Browser Based Hand Tracking TensorFlow & MediaPipe via JS
- Acoustic Data Transmission Visual Basic 6
- Security Face Recognition Software C#, C++, Arduino
- Morse Code Interpreter Visual Basic 6

Professional Experience

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

Academic institute in Jerusalem

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 in Jerusalem

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 in Jerusalem

Programmer

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