Amitai.A.

Computer Science, Mathematics & Physics

🏠 Jerusalem, Israel
📞 050-931-1121
✉ amitai.a.job@gmail.com
⌨ ami-a.github.io
in linkedin.com/in/amitaia
📻 4X5LP

Programming
- C# / C++ / Python
- MATLAB / Arduino / VB6
- JS / HTML5 / CSS
- SQL / CQL / Cypher

Databases
- MySQL / Neo4j
- MongoDB / PostgreSQL
- IBM DB2 / SQLite
- Couchbase / Oracle
- Apache Derby
- Amazon DynamoDB
- Microsoft SQL Server
- Microsoft CosmosDB

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 $SL_n\left(\mathcal{O}_k\right)$
- **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
- **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 Biglp(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