Amitai.A.

Computer Scientist, Mathematician & Physicist

Personal Info

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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
- Microsoft Access

OSs & IDEs

- Windows ● Linux
- Visual Studio ● Matlab
- Visual Studio Code
- PyCharm ● CodeBlocks
- Arduion ● Mathematica

Languages

- Hebrew-Native
- English-Professional
- French-Limited

Education

| 2017–2019 | **Masters** of Mathematics | The Hebrew University of Jerusalem |

Generators for Finite Index Subgroups of $SL_n\left(\mathcal{O}_k\right)$
This thesis gives a new proof for the following theorem. In every finite index subgroup of $SL_n\left(\mathcal{O}_k\right)$ (for $n \geq 3$), there are three elements that generates a finite index subgroup.

| 2013–2016 | **Bachelor** of Mathematics & Physics | The Hebrew University of Jerusalem |

Certifications

| 2012–2013 | **Professional Certificate** in .NET Development | John Bryce College, Matrix |

A year-long course
An advanced course that covered C#, ASP.NET, SQL, SQL Server, JavaScript, HTML & CSS.

Experience

| 2016 | **AGAT Software** | Software security company in Jerusalem |

Programmer & Project Supervisor
I developed, integrated and upgraded solutions for companies that have data security vulnerabilities caused by connecting employees' mobile devices to the company network. Mainly I managed and developed a solution for integrating a security program with Mobile Device Management (MDM) systems, while managing and coordinating three programmers. I acquired full control and a comprehensive understanding of the leading MDM systems on the market, such as:

- Good(Blackberry)
- MaaS360(IBM)
- XenMobile(Citrix)
- MobileIron
- AirWatch(VMWare)

In addition, I developed solutions for the data security platform of the company, amongst them:

- Integration of a reverse proxy server, that was developed by the company, with other reverse proxy servers like BigIp(F5) and NetScaler(Citrix).
- Building tools (mainly in C# & Python) for monitoring and diagnosing problems in the company's reverse proxy server, like:
  - SIP & HTTP/S Protocols
  - Reaction Timing Optimization
  - Certificates
  - Content & Encryption

| 2014 | **BRACHA VEHAZLACHA** | Software company in Jerusalem |

Programmer
A solo build of a web system using ASP.NET & MySQL Server, to organize and manage marriage files for the Israel Religious Councils.

2014–2020	**The Hebrew University of Jerusalem**	Academic institute in Jerusalem

Academic Assistant in the Einstein Institute of Mathematics

I provided diverse services as an academic assistant, which normally included grading students' papers and examinations, as well as teach and guide students during my office hours. I also built some C# programs to assist me with these tasks.

Independent Projects

I have over 15 years of experience in independent coding in a plethora of languages. I design and build technological, challenging and innovative projects. Please visit my portfolio at ami-a.github.io, here are some examples from there:

Independent Quadcopter Security System — 2013
C#, C++, Python & Arduino
An independent flying and landing quadcopter, using a sonic distance sensor and a pre-loaded patrol map.

Personal Voice Activated Virtual Assistant — 2012
C#, Win7
A voice activated virtual assistant similar to Google Assistant and Alexa. It also has a smart speech isolating filter.

Security Face Recognition Software — 2012
C#, C++, Arduino
A simple face recognition program that compares and matches faces to a database and opens/closes a lock accordingly.

My online portfolio contains only completed projects or nearly completed ones and dose not include incomplete or questionably legal projects.

Additional skills

2019	**Amateur Radio Operator**	Ministry of Communications

I have a license to build, own and operate radio station equipment, as well as communicate with other radio operators all over the world.

2015	**Mixologist & Bartender**	Glen Whisky Bar, Jerusalem

I learned and experimented with cocktails, molecular mixology and spirits in this special whisky bar.

2010	**Medic**	Israel Defense Forces

I went through combat medic training in the IDF and was stationed in an infirmary at the north border.

Interests

Professional:

Machine Learning · Artificial intelligence · Big Data · Algorithms · Robotics

Electronics · Communications Technologies · Blockchain

Personal: Piano, Chess, Whisky, Carpentry, Japanese, .