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-Fluent
- French-Basic

Education

2017–2019   **Masters** of Mathematics   The Hebrew University of Jerusalem
Generators for Finite Index Subgroups of $SL_n\left(\mathcal{O}_k\right)$
My 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

2020   **Certificate** in Machine Learning   by Stanford University via Coursera
A very thorough and demanding course focusing on machine learning. It covered many topics, from different regression methods and neural networks to advanced new applications, all was applied in MATLAB.

2020   **Certificate** in Computer Vision   by University at Buffalo via Coursera
A basic course in computer vision covering all the basics in the filed and was applied in MATLAB.

2012–2013   **Professional Certificate** in .NET Development   John Bryce College, Matrix
An advanced course that covered C#, ASP.NET, SQL, SQL Server, JavaScript, HTML & CSS.

Personal Experience

I have over 15 years of experience in independent coding in a plethora of languages. I design and build challenging and 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

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 ● MaaS360 ● XenMobile ● MobileIron ● AirWatch.
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 & encryption.

2014	**BRACHA VEHAZLACHA**	Software company in Jerusalem

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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.

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   DW