

Amitai Assayag

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 $SL_n(\mathcal{O}_k)$
This thesis gives a new proof for the following theorem. In every finite index subgroup of $SL_n(\mathcal{O}_k)$ (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, .