

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** Har-Hotzvim, 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 devices that are managed by Mobile Device Management(MDM) while managing and coordinating three programmers. I acquired full control and a comprehensive understanding of the leading MDM products on the market, such as:

- Good(Blackberry)
- MaaS360(IBM)
- XenMobile(Citrix)
- 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
 - Content & Encryption

2014 **BRACHA VEHAZLACHA** Givat Shaul, Jerusalem
Programmer

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

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

Givat Ram, 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 various languages. I designed and built technological, challenging and innovative projects for fun, here are some examples:

2013 **Independent Quadcopter Security System**

C#, C++, Python & Arduino

An independent flying and landing quadcopter, using a sonic distance sensor and a pre-loaded patrol map.

2012 **Personal Voice Activated Virtual Assistant**

C#, Win7

I developed a voice activated virtual assistant similar to Google Assistant and Alexa, only before they existed. It had the ability to control Windows 7 environment and programs, and also had a smart speech isolating filter.

2012 **Security Face Recognition Software**

C#, C++, Arduino

A simple face recognition program that compared and matched faces to a database, and opened/closed a lock accordingly.

I also built some sites(ASP.NET, SQL, JavaScript, CSS, HTML) and some electronic projects(open source hardware, sensors, engines, etc.).

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, .