

Liron Shimrony

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Professional Experience

NOAA CREST — *Data Wrangler and Visualization Developer, USA,*

Sep. 2015 — Present

- Simplifying large data sets in order to focus on the main area of interest.
- Transforming data sets to different forms for data analysis.
- Converting data to different formats according to the project needs.
- Design and develop data visualization web applications.
- Advising experts about tools to be used in projects according to their needs.

Israel Ministry of Defense — *IT Manager/ Security Supervisor, USA/ Austria,*

Aug. 2006 — Jan. 2015

- Designed software using VBA to analyze employees' performance by feeding it with the security statistics of each shift.
- Designed and implemented software using VBA to manage and schedule overseas shifts for local employees. The software automatically retrieves the employees' details from a database, assigns them to a hotel and sends an email notification to the relevant office.
- Designed and developed software to analyze data about cargo which is being moved, so that management could obtain statistics that help them plan manpower.
- Managed a team of 7 employees during flights to ensure security protocols are followed.
- Manage maintenance and troubleshoot of devices such as CT machines, X-Ray machines and explosive detectors.

Memorial Sloan Kettering Cancer Center — *Web Developer, USA,*

May 2014 — Dec. 2014

- Designed and developed a web application for semi automatic statistical segmentation (SASS) to be used by medical physicists, radiology specialists and researchers to calculate the volumes of body organs and tumors.
- Designed an interface to segment body structures while using multiple modalities (different protocols of MRI, CT, etc).
- Implemented machine-learning algorithm to segment the selected body organ or tumor.
- Designed a database to store statistics collected from the above system.

Adlyn LLC — *Java Software Developer, USA,*

May 2012 — Dec. 2012

- Designed and implemented a relational database using MySQL.
- Designed and implemented a user interface using Java Swing for marking defective areas of diamonds'.

Chayon LTD. — *Assistant Lab Manager, Israel,*

Oct. 2003 — Jul. 2006

- Diagnosed and fixed technical issues on computer hardware such as CPU, Motherboards, RAM, etc.
- Provided IT support for company employees, workstation installations, OS installations and hardware upgrades.

Israel Defense Forces — *Naval Systems Operator*

Sep 2000 — Sep. 2003

- Served as a combat trained fighter on a missile ship.
- Operated and trained soldiers, officers and future commanders on using and understanding generators, engines, water supply and emergency protocols.

Education

- **M.Sc**, Computer Science, City College of New York, expected to graduate in December 2016
- **B.Sc**, Computer Science, City College of New York, December 2014 (GPA: 3.5).

Awards

- Magna Cum- Laude.
- Outstanding project implementation award, Computer Science, City College of New York, 2015.
- The Dean's List, City College of New York, 2011, 2013.

Projects

- **"Is It Canceled?"** (Goldman Sachs Hackathon, 2014 - "Honorable Mention") – Developed by a team of 5 in 12 hours, this web application provides a convenient way for professors to send class schedule updates via email and SMS notifications to their students with a click of a button, by using Twilio API. My contribution to the project was creating the back-end script to send the notifications, a live feed of recent activity, a user registration system, database design and filtering the features to be included in the final release. The back-end is written in Python using the Django framework and the front end is using jQuery and Twitter Bootstrap.
- **PowerCalc** (Senior Project, 2013) – Worked in a team of 2 developers, drafted a proposal for a new software and designed a system that allows users to invoke various programming environments and commands using their mobile device. The system was designed behind the concept of the "Internet of Things" and can be configured to control various home appliances. In addition, using the Flask framework, we implemented an administration interface to add or remove devices.

Skills

- **Programming:** Python, Javascript, Java, C++, MySQL, MongoDB, PHP, HTML, CSS, jQuery, Django, Flask, Twitter Bootstrap, D3.js, Backbone.js
- **Operating Systems:** Mac, Linux and Windows.

Portfolio

- <http://gagn.io>