

Liron Shimrony

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Professional Experience

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 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

- **City College of New York** — B.Sc. in Computer Science (**GPA: 3.5**).
- Magna Cum- Laude, Outstanding Project Implementation Award ,The Deans List.

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.
- **ParallelText** (School Project, 2013) – A web application geared towards users who wants to learn additional languages. Its main feature is to allow users to view texts in two different languages side-by-side. The user chooses his native language and an additional language he wants to learn. In addition, each user can create a personal dictionary for words he would like to memorize and their translation. To create this feature, we used Bing API. The application was built using Python's Django web framework as the back-end, PostgreSQL for the database, and HTML/ CSS/ JavaScript as the front-end. I worked in a team of 5 developers and exercised the Scrum software development methodology throughout our development process.
- **Books Auction Web Application** (School Project, 2013) – Created an SRS document and implemented a new web application using Flask framework to implement the requirements in the SRS document. This web application included transactions such as buy now, bid, rate, comment, sell, search books, search users as well as an administration interface which allows approving or suspending users, view complaints about a user, remove auctions, etc.
- **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, Java, C++, C, VBA, MySQL, MongoDB, JavaScript, PHP, HTML, CSS, jQuery, Django, Flask, Twitter Bootstrap, D3.js, THREE.js
- **Operating Systems:** Mac, Linux and Windows

Portfolio

<http://lsxliron.github.io>