

## Summary

**Strengths** I am intelligent, personable, professional, innovative, and independent. I have a passion for programming and a devotion to quality. I learn quickly and solve problems effectively by synthesizing and applying new skills and information.

**Technology** C, C++, Python, Bash, Perl, Java, JavaScript, XML/XSLT, SQL, T<sub>E</sub>X

## Experience

**2008 - 2009**      **Web-based Maps Application**  
Freelance Jerusalem, Israel  
Conceived, designed, and developed web application for collaborative mapping.

**2005 - 2009**      **Mobile Telephony Server**  
iSkoot Israel Har Tuv, Israel  
Played key role on small team which developed VoIP server application for using Skype from a regular cell phone, currently providing service to hundreds of thousands of Skype, Hutchison, and iSkoot customers worldwide, and winner of 2008 MITX Best Mobile Technology Award.

- Designed, developed, and documented server system for using Google Talk from regular cell phone
- Conceived, designed, implemented, documented, and maintained framework for expect-style scripting of GUI applications
- Redesigned, refactored, and documented large portions of existing code. Reduced server load by over 50% by optimizing digital audio processing

**2006 - 2008**      **Web-Based Medical Database Application**  
Gift of Life Bone Marrow Foundation Boca Raton, FL  
Contributed to ongoing development of in-house web application for the operation and administration of bone marrow donors' registry.

- Implemented and documented an algorithm to estimate probabilities of finding a partially-matching bone-marrow donor as a function of donor pool size for varying patient populations using monte-carlo simulation
- Designed and implemented a system to validate, accumulate, and log the results of genetic typing tests
- Conceived, designed, implemented, and documented a server-side framework for quickly building AJAX web pages for custom search and display of records from database

**2006**              **Embedded Media Device**  
Catch Media, Inc. Jerusalem, Israel

- Designed and implemented a system for providing accurate daily astronomical calculations for cities around the world on a handheld media device
- Designed and implemented a custom character rendering engine for supporting complex and bidirectional scripts on handheld media device

**2005**              **Content Conversion Software**  
UB Access Jerusalem, Israel  
Participated in development of system for creating DAISY digital talking books.

- Conceived, designed, and implemented new algorithm to increase speed and accuracy, worked with lead developer to integrate new code into existing system

2002	<b>Financial Projection Software</b> TIAA-CREF Implemented financial projection engine for EssBase multidimensional database	New York, NY
1998 - 2001	<b>Software Release Management</b> Exeter Educational Management Systems (EEMS) <ul style="list-style-type: none"> <li>Managed the test-and-release process of a complex suite of database applications for university management on three separate platforms.</li> <li>Conceived, developed, and documented a partly-automated release process which was used after I left the company for the lifetime of the product.</li> </ul>	Cambridge, MA
1996	<b>Research Fellow - Quantum Modeling</b> Harvey Mudd College Department of Chemistry	Claremont, CA
1995	<b>Research Fellow - Study of Electronic Properties of Organic Monolayers</b> Harvey Mudd College Department of Chemistry	Claremont, CA
1994	<b>Research Fellow - X-ray Protein Crystallography</b> Harvard University Department of Biochemistry	Cambridge, MA
1994	<b>Teaching Assistant - Electricity and Magnetism</b> Harvey Mudd College Department of Physics	Claremont, CA
1993	<b>Research Fellow - Molecular Dynamics Simulation</b> University of Texas Southwestern Medical Center	Dallas, TX
1992	<b>Research Fellow - High Energy Physics Particle Detector R&amp;D</b> Superconducting Super Collider	Dallas, TX

## Leadership

2008 - Present	<b>Lecturer</b> RCA Daf Yomi (Talmud study group)	Jerusalem, Israel
2006 - 2008	<b>Rabbi/Teacher</b> Shapell College of Jewish Studies	Jerusalem, Israel
1997	<b>Steinhardt Jewish Campus Service Corps (JCSC) Fellow</b> Hillel Foundation, University of Connecticut	Storrs, CT

## Education

2005	<b>Rabbinic Ordination</b> Rabbi Isaac Elchanan Theological Seminary	New York, NY
2004	<b>Coursework in Education and Education Management</b> Azrieli Graduate School of Jewish Education & Administration	New York, NY
1996	<b>B.S. Physics</b> Harvey Mudd College	Claremont, CA

## Personal

<b>Citizenship</b>	United States, Israel
<b>Languages</b>	English, Hebrew
<b>References</b>	Available on my <a href="#">LinkedIn</a> page or by request