

Sam Halperin

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SUMMARY

I am a software developer with experience across the entire technology stack of web applications, and a focus on client side development and UI engineering. I have a strong multidisciplinary background in engineering and design.

OBJECTIVE

A senior position developing web applications with a focus on client side development and user interface design, or a junior position developing iOS and mobile applications with a great degree of potential for self directed learning. (or some combination)

EMPLOYMENT HISTORY

SOFTWARE ENGINEER II

2011-Present

Solutions For Progress, Philadelphia, PA
<http://www.thebenefitbank.com>

The Benefit Bank® (TBB TM) is a web-based expert system designed to secure funds and services for individuals and families working to overcome poverty and to build long term financial stability.

As a software engineer on the 6 person systems team at The Benefit Bank, I have worked to develop and maintain code that supports an enterprise of about 100 people. I report to the Software engineering team lead, who reports to the director of technology.

While my responsibilities include development, testing and maintenance across the entire technology stack, I have become a subject matter expert especially in client side development of our app. My goal is to stay very current in both new interface designs as well as implementation strategies that work towards robust and maintainable client side solutions.

Key technologies: HTML, CSS, XML, JavaScript (Large applications, object oriented design, AJAX, JSON, jQuery, Backbone.js, Underscore.js), SQL, Perl/mod_perl, Python, Apache Web Server, Linux, Google Analytics

Architecture: CGI, Model View Controller, CRUD, REST

Major Projects

Quick Check: Rewrote a flash application into an HTML/JS driven AJAX site. Focus

on increasing robustness, efficiency and correctness of app by writing unit tests and developing with web standards.

Postal Address Validation System: Wrote an Ajax interface to a postal address validation web service.

Spanish Language Translation System: Extended an existing system into a robust translation infrastructure that supports the translation of dozens of tax and benefit modules for the benefit bank.

Email Reminder Web Service: Wrote a Python based web service for scheduling e-mail reminders.

TBB Self Serve Portal: Wrote CGI back end, and designed front-end architecture for The Benefit Bank's self-serve edition web portal.

Efile Letter Writing System: Wrote large portions of the Efile letter-writing system which generates, prints and saves response letters for clients.

Training Document CMS: Wrote custom Content Management System for Training Department user manuals.

Report Generator: Wrote a backbone.js based single page web application for scheduling reports.

Other Projects

Various systems administration tasks, extensive web forms front end / back end / database engineering, TBB User Interface design and implementation, Document Browser, a system to recall saved tax and benefit forms, extensive user interface work, automated regression testing tools, VITA FSA Kiosk mode.

SOFTWARE ENGINEER I

2006-2011

Solutions For Progress, Philadelphia, PA

<http://www.thebenefitbank.com>

See Software Engineer II description above.

QUALITY ASSURANCE ANALYST

2005-2006

Solutions For Progress, Philadelphia, PA

<http://www.thebenefitbank.com>

QA analyst responsible for manual testing as well as writing automated regression tests.

Core Technologies: Bugzilla, Perl, Ruby, Watir automation framework

CONTRACTOR / CONSULTANT

2002-ongoing

Worked on a number of commercial web projects on short term and consulting contracts. Consulted with clients to develop web presence, e-commerce and

visualization sites. Projects included implementations of web front-end, database back-end, e-commerce, and graphic designs.

Some of my more recent personal projects are on github at:
<http://www.github.com/shalperin>

Featured Clients / Projects

- Sunpower Afrique:** Information Architecture (2009)
- Philagrafika:** CSS development for website (2007)
- Philadelphia Super Ducks:** Website, store front (2007)
- MoodJournal.org:** Web application (Perl) (2007)
- Equip Consultants:** Architectural Renderings, Flash Applet (2005)
- Ascension Technologies 3D Bird JNI:** Java Native Interface Driver (2003)
- Virtual Village:** Chat client (Java) (2002)

Key Technologies: HTML/CSS, Flash, Flash ActionScript, mod_perl, Linux, Apache Web Server, 3D Studio Max, Rhino3D, AutoCAD

TECHNOLOGY TRAINER

2001

Tech Corps / VISTA, Philadelphia, PA
<http://techcorps.org>

Assigned to the School District of Philadelphia, worked in urban high school and urban technology project to bring computer technology, hardware, networking and 3D graphics experience to high school students. Helped maintain computer labs, and write training materials.

REPAIR TECHNICIAN

1998

Comp-USA, King of Prussia, PA

Repaired computers under service contract. Responsible for fixing hardware and software problems at store and on-site.

TOOLKIT

Front-End Development

- ◆ JavaScript
- ◆ HTML/CSS
- ◆ XML

- ◆ jQuery / jQuery UI
- ◆ Ajax, Asynchronous JavaScript + JSON, JSONP
- Backbone.js
- Underscore.js

- YUI / Grids
- Flash ActionScript

Server-Side Development

- ◆ mod_perl

- ◆ Apache Web Server
- Google App Engine
- CherryPy (Python)
- Python
- Ruby On Rails
- Django
- C# / ASP
- Java

Databases

- ◆ PostgreSQL
- ◆ SQL
- MySQL

- PL/pgSQL
- Oracle Express

Mobile

- Interface Builder, Objective C, iOS

Other Languages

- C
- ◆ VRML/X3D

Analytics

- ◆ Google Analytics

CMS

- ◆ WordPress
- Drupal

Applications

- Adobe Creative Suite
- Balsamiq
- OmniGraffle
- Rhino3D
- AutoCAD
- 3D Studio Max
- Sketch Up

○ Novice ■ Intermediate ◆ Expert

EDUCATION

DOCTOR OF PHILOSOPHY, COMPUTER INFORMATION SYSTEMS,
ONGOING

Nova Southeastern University, Ft Lauderdale, Florida

MASTER OF SOFTWARE ENGINEERING, 2011

Brandeis University, Waltham, Massachusetts - 3.96 GPA

BACHELOR OF ARTS, FINE ART, COMPUTER GRAPHICS CONCENTRATION
2000

The University of Pennsylvania, Philadelphia, Pennsylvania

OTHER COURSEWORK

Adobe Illustrator	2010	University of the Arts
Presenting Data and Information	2010	Edward Tufte Workshop
OpenGL Boot Camp	2010	Big Nerd Ranch
Certificate in Yacht Design	2004	The Landing School