

# Paul Howe

[plhw.org/](http://plhw.org/)

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## Experience

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### SocialCode — [socialcode.com](http://socialcode.com)

Engineering lead of the analytics and insights team whose goal is to provide novel, industrial strength analytical models and services for application developers.

San Francisco, CA: Engineering Manager (July 2013 - Present)

- AWS: EC2 / RDS / ElastiCache / S3
- Celery
- Django
- MySQL
- Python

### Forio Online Simulations — [forio.com](http://forio.com)

San Francisco, CA: Software engineer (November 2011 - June 2013)

Developed an online educational simulation in collaboration with Harvard Business School designed to teach concepts in venture capital and private equity portfolio management.

- AWS: EC2
- Java
- MongoDB
- Ruby (JRuby)
- ZFS

### SimplyHired — [simplyhired.com](http://simplyhired.com)

Mountain View, CA: Contract software engineer (August 2010 - June 2011)

Developed a high performance email delivery system in Python to support the prompt delivery of email job alerts. The alerts delivery service was responsible for processing ~750k emails/hr.

- Multi-core processing
- Python

### SplinkMedia — [splinkmedia.com](http://splinkmedia.com)

San Francisco, CA: Lead developer (April 2009 - April 2010)

Lead developer for the social media startup, SplinkMedia.com.

- Django
- Git
- Javascript
- Linux
- Memcache
- Nginx
- Postgres
- Python

## **Yahoo! — [yahoo.com](http://yahoo.com)**

Sunnyvale, CA: Software engineer (September 2007 - April 2009)

As a member of the personalization going team I participated in platform development on a distributed database responsible for storing profile data for several highly trafficked sites at Yahoo. Contributed to several internal and external web applications.

- PHP
- MySQL
- Javascript
- C++

## **Acxiom Digital (formerly Kefta) — [acxiom.com/digital-impact](http://acxiom.com/digital-impact)**

San Francisco, CA: Software engineer (March 2006 - September 2007)

Acquired by Acxiom Digital (April 2007)

Developed client campaigns on the Kefta web services platform. Developed marketing campaigns for several high traffic fortune 500 websites.

- Python
- Oracle
- Solaris
- Javascript

## **Berlitz — [berlitz.com](http://berlitz.com)**

Brno, Czech Republic: English teacher (October 2004 – October 2005)

Brno Language School, Czech Republic

## **CT Diagnostic Imaging Center**

Madison, WI: Web developer (March 2004 - May 2004)

Designed and Developed web site for the University CT Imaging group.

## **Environmental Remote Sensing Center — [www.ersc.wisc.edu](http://www.ersc.wisc.edu)**

Madison, WI: Web developer & assistant systems administrator (December 2001 to May 2004)

Developed a web site to serve daily MODIS satellite imagery for the state of Wisconsin. Also Assisted in software maintenance and Unix system administration.

## **Education**

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### **University of San Francisco - [usfca.edu](http://usfca.edu)**

San Francisco, CA: Masters in Computer Science (August 2008 – May 2012)

#### **Coursework and Research**

- Advanced Microcomputer Programming
- Distributed Software Development
- Artificial Intelligence
- Web Systems & Algorithms
- Security & Privacy
- Network Queueing Theory

### **Lawrence Livermore National Laboratory — [llnl.gov](http://llnl.gov)**

Livermore, CA: Research internship (November 2010 - November 2011)

Participated in an internship at Lawrence Livermore National Labs to facilitate the testing and analysis of supercomputer performance modeling.

- MPIP
- Network Queueing Theory

### **University of Wisconsin-Madison — [wisc.edu](http://wisc.edu)**

Madison, WI: Bachelors of Computer Science (May 2000 - May 2004)

#### **Coursework**

- Algorithm Analysis
- Artificial Intelligence
- Compilers, Object Oriented Development in Java
- Machine Organization & Digital Systems Fundamentals
- Programming Language Design
- Programming Language Theory (C, C++, Java)

### **Previous university coursework**

Rochester, MI; Royal Oak, MI; Detroit, MI (1998 - 2000)

- Oakland University — [oakland.edu](http://oakland.edu)
- Oakland Community College — [oaklandcc.edu](http://oaklandcc.edu)
- Wayne State University 1998 — 2000 [wayne.edu](http://wayne.edu)

## Coursework

- Introduction to C++
- Network Programming in C

## Publications & documentation

- [MPIP supercomputer performance modeling research project documentation](#)
- Near Real-time Internet Delivery of Processed MODIS Imagery in Wisconsin [[Paper](#)] [[Citation](#)]

## Achievements

Winner of “Hacks / Hackers” 48 hour iPad application development competition sponsored by KQED for entry “Who's reppin me?”, May 2010 [Link](#)

## Honors & scholarships

- 2012 USF Computer Science department fellowship award
- Scholarship to Grace Hopper Celebration of Women in Computing Conference 2010

## Presentations

### Supercomputer Performance Modeling

Poster Presentation at the 12th Celebration of Student Research and Artistic and Scholarly Creative Activity (April 12 2011)

Advising Professor: Jeff Buckwalter

## Technologies

- Django
- Java
- Javascript
- Node
- Python
- Rails
- Ruby
- SQL (MySQL, Postgres)