

## Paul Howe

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## Experience

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### Pandora — [pandora.com](http://pandora.com)

Oakland, CA: Engineering Manager - Analytics (July 2016 - Present)

- Hadoop
- Hive
- Java
- Postgres
- Scala
- Spark

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

San Francisco, CA: Sr. Engineering Manager (July 2013 - July 2016)

Analytics team engineering manager. The analytics team works to develop novel, industrial strength analytical models and services. The analytics team interfaces closely with product, research and platform development teams.

- AWS: EC2, Elasticsearch, Elastic MapReduce, Redshift, RDS
- Celery
- Chef
- Django
- Docker
- Grafana
- Jenkins
- Kibana
- 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
- JRuby
- ZFS

### **SimplyHired — simplyhired.com**

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

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

- Multiprocessing
- Python

### **SplinkMedia — 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**

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

As a member of the personalization geing 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
- Artificial Intelligence
- Autometa Theory
- Bioinformatics
- Distributed Software Development
- Network Queueing Theory
- Operating Systems
- Security & Privacy
- Web Systems & Algorithms

## **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

## **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)