

# Patrick Cockwell

## Software Engineer

Address: 388 5th St, Unit 1, San Francisco, California  
E-mail: pcockwell@gmail.com  
Phone: 415-568-1103

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I graduated University of Waterloo with a Bachelor of Software Engineering and am very interested in large data set analysis and visualization with experience in user acquisition and monetization of current users. I am looking to learn more on these topics and improve my design and development skills. I am also familiar with, and excited about DevOps and infrastructure management, having received some recent exposure to these specialties.

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## SKILLS AND QUALIFICATIONS

### Languages

- **PHP**: Over 4 years of experience obtained working on projects including Orion, AuToDo, RoomClerk, and various analytics dashboards
- **SQL**: Over 7 years of experience gained working on a wide range of tools and tasks
- **Python**: Over 3 years of usage and experimentation for scripts and applications within the workplace and on personal tasks
- **Ruby**: Approximately 24 months of development for web application and data management purposes in the workplace
- Very experienced with **HTML**, **CSS**, **Javascript**

### Tools and Software

- Expert with **MySQL** and **PostgreSQL** through work with multiple different forms of applications
- Familiar with several **Amazon Web Services** tools including **S3**, **EC2**, **Route53**, and **Lambda**
- Comfortable infrastructure management tools such as **Terraform** and **Ansible**
- Experienced with multiple version-control systems including **Git** and **SVN**
- Frameworks/Toolkits: **Ruby on Rails**, **Django**, **CodeIgniter**, **Laravel**, **Kata (PHP)**, **jQuery**, **Twitter Bootstrap**, **Pylons**
- Operating Systems: **Linux**, **Mac**, **Windows**

### Other Qualifications

- Have resided in **Velocity**, an exclusive residence incubator focused on **entrepreneurship** and **technology** for 4 terms
  - Comfortable working in team environments and very experienced working on small teams
  - Passionate about computer programming, gaming, web development, and large data visualization and management
  - Currently interested in the DevOps and infrastructure management
  - **Fully bilingual**, and fluent in English and French
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## RELEVANT PROJECTS

### Availability Zone Disaster Recovery Test

#### Infrastructure Stability/Disaster Planning

Dec 2016 - Feb 2017

- Used Terraform and Ansible to normalize our infrastructure across 3 AWS Availability Zones
- Helped develop a process to simulating an Availability Zone outage, and expected recovery actions
- Ran an AZ outage simulation on production environment with no adverse or lasting effects on application performance and uptime

## **Orion Analytics Project**

### **Real Time Data Graphing**

**Oct 2011 - May 2013**

- Determined specifications, designed, and helped to build a real time graphing tool for my workplace
  - Built version 1 of a real-time data visualization tool using PHP, jQuery, AJAX, and interactions with Graphite, a real time time-series data aggregator
  - Revamped the project using CodeIgniter and Bootstrap along with the help of coworkers, and eventually open-sourced (see below for link) the project during a returning internship
  - Project currently has 10+ forks on GitHub and has been implemented and used at other companies
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## **WORK EXPERIENCE**

### **Agari Data Inc.**

#### **Software Engineer**

**May 2016 - Present**

- Helped coordinate and successfully executed AWS Availability Zone Disaster Recovery Test
- Built multiple application reliant integrations with different AWS services (Route53, S3, Lambda, RDS, Kinesis)
- Regularly involved in the management and creation of infrastructure resources via Terraform

### **Breeze Labs Inc.**

#### **Software & Data Engineer**

**Mar 2015 - Apr 2016**

- Developed multiple integrations with complex external APIs to gather data ranging from credit reports to vehicle locations and mileage
- Single-handedly managing and enhancing the entirety of the data and analytics infrastructure
- Built many tools to improve the accuracy and reliability of reports to investors and external interests

### **Hearsay Social Inc.**

#### **Software Engineer**

**Jul 2014 - Feb 2015**

- Designed and developed a Data Warehouse product, including Extract-Transform-Load process, using S3, Redshift, and custom Python code
- Worked to parallelize extraction and transformation of data to improve speed and efficiency
- Incorporated heavy data security constraints imposed by clients and business model

### **GREE International Inc./Funzio Inc.**

#### **Analytics Engineering Intern**

**May 2012 - Aug 2012**

- Developed multiple analytical display dashboards from the ground up for the Analytics Engineering Team
  - Helped design analytics databases for games in development
  - Revamped and worked towards open-sourcing the Orion Analytics Project (mentioned above)
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## **EDUCATION**

### **University Of Waterloo**

#### **Bachelor of Software Engineering (BSE)**

**Sept 2009 - Mar 2015**

- Received a total of 2 years of workplace experience through the University of Waterloo Co-op Program
- Course work included Data Structures and Data Management, Algorithms, Concurrency, Database Management, Numerical Computation, Artificial Intelligence, Cryptography and System Security, and Computer Intelligence