

Patrick Cockwell

Software Engineer

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I graduated University of Waterloo with a Bachelor of Software Engineering and am very interested in DevOps, infrastructure management, and large data set analysis and visualization. I also have a strong interest in internal engineering enablement through the development of tooling and processes to improve the productivity and velocity of a development team.

SKILLS AND QUALIFICATIONS

Tools and Software

- Familiar with several **Amazon Web Services** tools including **S3**, **EC2**, **Route53**, **IAM**, and **Lambda**
- Well versed with infrastructure management tools such as **Terraform** and **Ansible**
- Solid understanding of **Git** version-control including extensive experience with **GitHub**
- Frameworks/Toolkits: **Ruby on Rails**, **Django**, **CodeIgniter**, **Laravel**, **Kata (PHP)**, **jQuery**, **Twitter Bootstrap**, **Pylons**
- Operating Systems: **Linux**, **Mac**, **Windows**

Languages

- **Ruby**: Approximately 2.5 years of development for web application and data management purposes in the workplace
- **SQL**: Over 7 years of experience working with tools including **MySQL** and **PostgreSQL**
- **Python**: Over 3 years of usage and experimentation for scripts and ETL process tooling
- **Go**: Very experimental understanding as a result of recent investigation and attempts to create **AWS Terraform Resource**
- **PHP**: Over 4 years of experience obtained working on projects including Orion, AuToDo, RoomClerk, and various analytics dashboards
- Very experienced with **HTML**, **CSS**, **Javascript**

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 particularly 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)
- Member of engineering enablement team tasked with infrastructure management via Terraform/Ansible and developing internal tooling to improve development process and velocity of teams working on core products

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 managed and enhanced 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