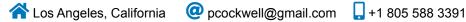
## Patrick Cockwell **DevOps** Engineer



I graduated University of Waterloo with a Bachelor of Software Engineering and am very interested in DevOps and infrastructure management. 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

- Very experienced with several GCP tools including Cloud Storage, Bigquery, Kubernetes Engine, and IAM
- Familiar with several Amazon Web Services tools including S3, EC2, Route53, IAM, and Lambda
- Solid grasp of Kubernetes, and deployment of applications using GitOps, Kustomize, Helm and ArgoCD
- Well versed with infrastructure management tools such as Terraform, Terragrunt, Atlantis and **Ansible**
- Strong understanding of ETL and Data Warehousing platforms including extensive usage of **Airflow**

## Languages

- Terraform: Over 8 years of experience working against AWS and GCP resources, including recently released products
- YAML: Over 7 years of experience working on Kubernetes applications and Kubernetes YAML manifests, including Kustomize and Helm
- SQL: Over 10 years of experience working with tools including MySQL and PostgreSQL
- Python: More than 10 years of usage and experimentation for scripts and ETL platforms
- Javascript: More than 10 years of development on various frameworks

#### Other Qualifications

- Comfortable working in team environments and very experienced working on small teams
- Passionate about computer programming, gaming, and particularly DevOps and infrastructure
- · Fully bilingual, and fluent in English and French

### RELEVANT PROJECTS

## On Demand Ephemeral Testing Environments **Developer Productivity & Tooling**

July 2022 - January 2024

- Developed automation procedures using ArgoCD and Jenkins to generate complex testing environments on demand
- Environments are generated by open GitHub Pull Requests across multiple repositories, use newly built images, and are completely and individually customizable
- Each environment is ephemeral and can be torn down or relaunched as needed

## Continuous Delivery using GitOps & ArgoCD Rapid & Consistent Kubernetes Deployments

May 2022 - December 2022

- Implemented ArgoCD for continuous deployments and delivery across all applications in all environments
- Refactored all Kubernetes application manifests to standardized structure and cleanup redundancies

## WORK EXPERIENCE

# Activision Blizzard Media Senior DevOps Engineer

## August 2021 - Present

- · Developed CICD infrastructure and pipelines for code testing and deployment
- Modelled existing and new infrastructure needs using Terraform and Terragrunt to standardize infrastructure management
- · Managed distributed computing systems using Kubernetes, Kustomize, Helm, and ArgoCD

## Freefall Consulting Inc.

## Owner/Contractor/Developer

June 2020 - July 2021

- · Worked on prominent edX open-source software project
- · Provisioned infrastructure and codifying architecture in Terraform module code
- Development using ReactJS for new large-scale UI redesign
- Designed and deployed large scale ElasticSearch implementation
- · Custom built serverless ETL pipelines for data intake

## Flyr Inc.

## Data/DevOps Engineer

May 2018 - March 2020

- Led the development effort for the Flyr ETL platform
- Designed, vetted, and built out a custom schema used to standardize data schemas for a variety of airline clients and their data
- Implemented a full redesign of GCP resource architectures using Terraform that enabled deployment of new client infrastructure on demand

## Agari Data Inc.

## **Software Engineer**

May 2016 - April 2018

- 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

## **CERTIFICATIONS**

### **Google Cloud DevOps Engineer**

December 2023

## **EDUCATION**

## **University Of Waterloo**

### Bachelor of Software Engineering (BSE)

September 2009 - March 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