Patrick Cockwell
DevOps Engineer

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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**, and **Ansible**
- Strong understanding of **ETL** and **Data Warehousing** platforms including extensive usage of **Airflow**

Languages

- **Terraform**: Over 5 years of experience working against AWS and GCP resources, including recently released products
- **YAML**: Over 5 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 management
- **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

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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