

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**, **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 management
 - **Fully bilingual**, and fluent in English and French
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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
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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