

# Paul Kirby

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A professional DevOps leader, with a proven track record for driving change and best practice adoption.  
Dedicated to continuous improvement. "Automate or Die" is my motto.

## LINKS

Github:// airborneporcine  
LinkedIn:// paul-kirby  
StackOverflow:// paul-kirby

## SKILLS

### DEVOPS

Experienced:

AWS • Terraform • Vagrant • Packer  
Docker • DataDog • Loggly  
Pingdom • Consul • Ansible

Familiar:

Chef • Salt • Puppet

### OS

Experienced:

Amazon Linux • Ubuntu  
Windows Server 2012 • OSX

Familiar:

CoreOS

### DEVELOPMENT

Experienced:

Go • Python • C# • Nginx  
AngularJS • Bash • Powershell  
Git • RabbitMQ

Familiar:

Objective-C • NodeJS

### DATABASES

Experienced:

SQL Server • DynamoDB • Redis

Familiar:

Neo4J • OrientDB • PostgreSQL

## CREDENTIALS

### AMAZON WEB SERVICES

AWS CERTIFIED SOLUTIONS

ARCHITECT - ASSOCIATE

Dec 2016

### UNIVERSITY OF CALGARY

BSC IN COMPUTER SCIENCE

Internship Program

June 2009

## PUBLICATIONS

### PLURALSIGHT

Designing Immutable Infrastructure with  
Packer

## EXPERIENCE

### CALGARY SCIENTIFIC INC. | DEVOPS ANALYST

Sep 2015 - Current

- Managed multi-region AWS infrastructure for remote visualization software, with regional failover capabilities.
- Implemented CIS and other security standards for AWS, including bastion host logins and full cloudtrail monitoring/auditing.
- Optimized storage usage for graphics-intensive instances, saving thousands per month.
- Guided the team through best practices towards Continuous Delivery model.
- Assisted in design/development of Go-based microservices architecture.
- Created AWS Lambda infrastructure in Python to support DevOps processes (eg. prewarming EBS volumes, resolving compliance issues).
- Utilized Docker, ECS and Spot Fleet to create cost-effective task-runner solution.

### MATRIX SOLUTIONS INC. | DEVOPS LEAD

Jun 2012 - Sep 2015

- Responsible for AWS infrastructure management (EC2 / RDS / Route53 / CloudFormation / CloudFront / S3 / SNS) - included attending AWS re:Invent 2014.
- Evolved Matrix's configuration and deployment automation via Vagrant / Packer / Salt / Consul.
- Mentored and guided development and infrastructure teams toward best practices adoption, including DevOps concepts, (A)TDD, dependency injection.
- Linux system administration on Ubuntu Trusty and Precise / Amazon Linux.
- Implemented Continuous Integration/Delivery pipeline from scratch w/ TeamCity, Git, Python.
- Integrated performance monitoring / analytics with DataDog/SumoLogic/Keen.IO
- Tech lead / architect on polyglot projects - C#, AngularJS, iOS, NodeJS, Go
- Created highly-available, fault-tolerant infrastructure for AngularJS mapping app backed by GeoServer.
- Designed highly performant API gateway layer, REST maturity model level 3 w/ full HATEOAS implementation of HAL hypermedia.
- Architected plugin-based desktop platform for internal app development, improving cycle time drastically.

### SHAW COMMUNICATIONS | INTERMEDIATE SOFTWARE DEVELOPER

Aug 2010 - Jun 2012

- Maintained Continuous Integration pipeline in TeamCity.
- Used a wide variety of technologies including: Javascript, C#, WCF, WPF.
- Software projects included maintenance of shaw.ca and myshaw.ca, and design of RESTful WCF services for Video On Demand purchases and 1-900 calling.
- Pioneered usage of Kerberos authentication and XML service status pages at Shaw, resulting in properly secured services and simplified application monitoring.
- Led the development community within Shaw, responsibilities included running lunch and learn sessions, defining code standards and internal library usage.