

Peter Ericson

Email pdericson@pdericson.com **LinkedIn** www.linkedin.com/in/pdericson/
Signal / SMS +64 27 215 4522

Personal Summary

I am a software engineer with expertise in Linux, Python, environment automation and continuous delivery. I am a hands on engineer who delights in enabling others through mentoring and writing high quality documentation. I am a passionate practitioner of agile development principles as they apply to software development and environment management.

Professional Experience

Oct 2021 – Present – **Platform Engineering Manager**
Transpower – Wellington, New Zealand

May 2021 – Oct 2021 – **Technical Lead**
Transpower – Wellington, New Zealand

Jul 2020 – May 2021 – **Senior DevOps Engineer**
Transpower – Wellington, New Zealand

May 2019 – Jul 2020 – **Platform Engineer, through Solnet Solutions**
Transpower – Wellington, New Zealand

I worked in Critical Services on environment automation, continuous delivery and monitoring of the Market system (the wholesale electricity market):

- Ansible automation improvements and development for mixed Windows Server and Kubernetes (OpenShift) environments hosted on VMware.
- Continuous delivery project work using Ansible and a custom Kubernetes operator to manage microserver orchestration.
- Improvements to monitoring for OpenShift, VMware, Windows Server and application metrics.

Technologies: Ansible, ELK, Git, Grafana, Kubernetes (OpenShift), Kubernetes operators, Linux (RedHat), Nagios, Prometheus, VMware, Windows Server, fabric8 (Maven plugin and Kubernetes client)

May 2019 – Present – **DevOps Engineer**
Solnet Solutions – Wellington, New Zealand

I worked as part of the Enterprise Platforms team on consulting fulltime with Transpower:

- Ansible improvements, including an AWX proof of concept to give visibility over existing Ansible based provisioning. Special attention given to automating the configuration of AWX to eliminate manual steps.

Technologies: AWX, Ansible, RHEV

May 2017 – Senior DevOps Engineer

Apr 2019 Standard Chartered Bank – Singapore

I worked in Financial Markets, SABRE (Analytics, Booking and Risk Engine) on environment automation and continuous delivery:

- Continuous delivery pipeline for a greenfield big data and microservice project on Kubernetes (OpenShift). From inception to fully automated production deployment.
- Kubernetes cluster provisioning using Ansible (Kubespray) and Kubernetes API development in Golang. Including fully automated production deployment.
- Linux on VirtualBox development environments using Ansible and a git based development model to promote self-service, and collaboration via pull requests.
- Environment automation for a non containerised Hadoop platform using Ansible and Prometheus for monitoring.

Technologies: Ansible, Cassandra, Docker, ELK, etcd, Golang, Grafana, Graphite, Hadoop, Jenkins, Kafka, Kubernetes (Kubespray and OpenShift), Linux (RedHat), Prometheus, Python

Sep 2016 – Linux DevOps Engineer

Apr 2017 Transport for NSW – Sydney, Australia

I worked on PTIPS (Public Transport Information and Priority System) on environment automation and monitoring:

- Improvements to Ansible automation to eliminate environment differences and to ensure fully reproducible full stack deployments on AWS. This was ahead of the successful go-live to the public.
- Used Serverspec to discover environment differences and as a data source for environment dashboards (using Dashing).
- On-call support assisted by VictorOps with Sensu integration.

Technologies: AWS, Ansible, Dashing, ELK, Grafana, Graphite, Kafka, Linux (RedHat), SENSU / Uchiwa, Serverspec, Slack, VictorOps

Apr 2015 – Senior DevOps Engineer

Sep 2016 Commonwealth Bank – Sydney, Australia

I worked in Omnia (Commonwealth Bank's big data and advanced analytics programme) on a new Mesos and Docker based platform for ETL (Extract, Transform, Load) jobs:

- Squad Lead of a new initiative within Omnia to distribute the scheduling of ETL jobs on Mesos clusters. Including fully automated production deployment.
- Used Ansible for provisioning and configuration management, and Riemann for environment testing.
- Presented at Mesos Sydney meetup. Attended Lambda Jam and linux.conf.au conferences.

Technologies: Ansible, Docker, ELK, HAProxy, Mesos (using Marathon and Chronos frameworks), Python, Riemann, Scala, Solr, Travis CI, ZooKeeper

Apr 2014 – Senior DevOps Engineer, through Odecee

Apr 2015 Commonwealth Bank – Sydney, Australia

I worked with Digital Channels and Omnia (Commonwealth Bank's big data and advanced analytics programme) on environment automation and continuous delivery:

- Contributed to Omnia's platform automation (Puppet and Ansible) and evaluated the use of Docker to improve CI/CD.
- Introduced Docker to improve the reliability and reproducibility of shared build infrastructure.
- Worked with Digital Channels teams to identify potential improvements related to CI/CD and Agile methodologies.
- Packer and Vagrant based development environment proof of concept running Windows Server for web applications and Linux for load balancing.

Technologies: Ansible, Dashing, Docker, Packer, PhantomJS, Puppet, Python, Serverspec, Shell, TeamCity, Vagrant

Mar 2013 – Senior DevOps Engineer, through Odecee

Apr 2014 Insurance Australia Group – Sydney, Australia

I worked with software delivery teams on CI/CD improvements and the Software Defined Environments (SDE) programme of work on environment automation (using Puppet and VMware vCloud Air):

- Created a masterless Puppet environment following Infrastructure as Code principles for the Software Defined Environments programme of work.
- Assisted internal teams with SCM and CI/CD uplift including Subversion to Git migration and improvements to automated testing.

Technologies: Bamboo, Dashing, Git, Linux (RedHat), PhantomJS, Puppet, Python, Serverspec, Shell, VMware vCloud Air, Stash (Bitbucket)

Mar 2013 – Senior DevOps Engineer

Apr 2015 Odecee – Sydney, Australia

I worked as part of the DevOps Practice on consulting fulltime with Insurance Australia Group (IAG) and Commonwealth Bank as well as internal Odecee projects and initiatives:

- Participated in growing Odecee's Sydney team and contributed to Puppet modules and other automation.
- Presented at DevOps Sydney, Docker Sydney and Docker Melbourne meetups.
- I was sponsored by Odecee to attend the inaugural DockerCon in San Francisco in 2014.

Technologies: AWS, Bamboo, Confluence, Docker, Hubot, JIRA, Packer, Puppet, Shell, Stash (Bitbucket), Vagrant

Nov 2008 – Software Engineer

Mar 2013 Toshiba (Australia) – Sydney, Australia

I worked in Toshiba's R&D division on test automation (using Python and VMware ESXi):

- Upon joining the R&D division I was tasked with finding a way to provide comprehensive automated testing for an ambitious Windows device driver project for Toshiba's MFPs (Multi Function Printers).
- Started and lead the development of an automated testing framework for Toshiba's MFPs. The testing framework (written in Python) covered the full testing pipeline from Virtual Machine management to fine grain control over Windows application automation. Comprehensive reporting of test results and performance metrics. This work was key to the successful release of a new generation of printer drivers to customers.
- Mentored junior engineers in contributing to automated testing systems.

Technologies: Git, Linux (Ubuntu and RedHat), PyWin32, Python, Shell, Sikuli, VMware ESXi

Apr 2005 – Analyst / Programmer
Nov 2008 PHARMAC – Wellington, New Zealand

I worked in the Analysis and Assessment team on data engineering (using PostgreSQL and XML technologies) and improvements to the Pharmaceutical Schedule (automated typesetting and web based search):

- Greenfield project to import a monthly dataset into PostgreSQL (XML functionality), using Python for data normalisation and visualisation.
- Redeveloped the PHARMAC website and interactive Pharmaceutical Schedule, adhering to government guidelines for accessibility. This website remained in use for several years after the initial release and parts of the interactive schedule still remain in use (as of 2018).
- Created an internal website used by Pharmaceutical Analysts to browse common queries applied to different pharmaceuticals.
- Collaborated on a project to typeset the Pharmaceutical Schedule in \LaTeX using XSLT transforms. The schedule is a printed book that is published quarterly so automating the typesetting directly from the database saved time and improved accuracy.
- Contributed to the Pharmaceutical Schedule XSD Schema validation and XSLT transforms.

Technologies: Apache, \LaTeX , Linux (Debian), OpenBSD, PostgreSQL, Python, Shell, Subversion, XML, XPath, XSD, XSLT, gnuplot, web.py

Education

2001 – Bachelor of Arts in Computer Science (incomplete)
2002 University of Otago – Dunedin, New Zealand

I withdrew in second year to pursue self study in C.

2000 Diploma of Audio Engineering
School of Audio Engineering – Auckland, New Zealand

Technologies

Legend: 😊 Expertise, 😊 Proficiency, 😊 Familiarity.

Programming

- 😊 Python, Shell
- 😊 Golang, C, Elixir / Erlang
- 😊 C++, Java, Haskell, JavaScript, Ruby, Scala, Groovy

Configuration Management

- 😊 Ansible, Docker
- 😊 Puppet, Kubernetes operators
- 😊 fabric8 (Maven plugin and Kubernetes client), AWX

Cloud (public)

- 😊 AWS
- 😊 DigitalOcean

Cloud (private)

- 😊 Kubernetes
- 😊 Mesos, VMware ESXi / vCloud Air
- 😊 RHEV

Web

- 😊 Apache, HAProxy, Nginx

CI/CD

- 😊 Jenkins, Travis CI
- 😊 Bamboo, TeamCity

Big Data

- 😊 Cassandra, Kafka, Elasticsearch
- 😊 Solr, Hadoop, Hazelcast

Collaboration

- 😊 Confluence, JIRA
- 😊 Hubot, Slack, Rocket.Chat, Mattermost

Visualisation

- 😊 gnuplot, Grafana, Dashing

Monitoring

- 😊 Prometheus
- 😊 ELK, Graphite, Riemann, Sensu / Uchiwa, VictorOps
- 😊 Nagios

Distributed Systems

- 😊 etcd, ZooKeeper

SCM

- 😊 Git
- 😊 Subversion

Documentation

- 😊 \LaTeX
- 😊 Apache FOP

Operating Systems

- 😊 Linux (Debian and RedHat)
- 😊 OpenBSD, Windows Server
- 😊 macOS

Testing

- 😊 PhantomJS, PyWin32, Serverspec, Sikuli

Database

- 😊 PostgreSQL
- 😊 MySQL / MariaDB, SQL Server

Web frameworks

- 😊 Tornado, Flask, web.py, Phoenix framework

Data formats

- 😊 json, XML (including XPath, XSD, XSLT)

Development Environments

- 😊 Vagrant, Packer