James Condron

Principal Site Reliability Engineer, DevOps

github.com/jspc   Yongsan-gu, Seoul

The master version of this file may be found at https://github.com/jspc/cv/blob/master/sre/cv.tex
And this PDF may be found at https://github.com/jspc/cv/releases/tag/2.0.0

Specialities

- Linux
- golang
- Technical Architecture
- Automation

- Kubernetes and Helm
- APM
- Systems Administration
- AWS

- Reliability Engineering
- Coaching
- Database Management
- Terraform

About me

A DevOps specialist working within Reliability Engineering, I have spent the majority of my career working across teams, geographically or by responsibility, solving scaling and performance in large scale production systems; largely split between Publishing and Finance, though with no small amount of ISP and Datacenter work.

I've a proven track record in introducing Reliability Engineering into organisations by coaching teams in the setting of SLOs, helping to instil supportability into squads (within the Spotify model), and reducing Mean Time to Resolution of issues.

I Specialise in

- Linux engineering and administration

- Reliability Engineering

- Distributed Systems using Kubernetes and Helm

- Architecture and Systems Design

- Technical Team Coaching and Mentor-ship

- Postgres administration and tuning, along with the underlying disks and OS

- Provisioning and orchestration with Terraform, Ansible, Packer, `userdata`

- NoSQL (Predominantly MongoDB, CouchDB, redis and memcached) management

- Message queuing/ brokering with kafka, rabbitmq, 0mq

- Community and Development Engagement (FOSS and within teams)

Systems Administration

- Linux to an extremely high level

    - containerisation and virtualisation
    - kernel call tracing

- process, open file tracing
- security and management
- architecture and design

Programming

- Golang to a high level https://github.com/go-lo/go-lo

- Bash to a high level https://github.com/jspc/homedir

- Ruby to a high level https://github.com/jspc/mud

- LaTeX to a high level https://github.com/jspc/cv

- Rust to a comfortable standard https://github.com/jspc/seoulos

- Python to a comfortable standard https://github.com/jspc/supergrass

- C to a reasonable standard https://github.com/jspc/tinyfib

- NASM to a reasonable standard https://github.com/jspc/tinyfib

Portfolio

2021   **SeoulOS**   https://github.com/jspc/seoulos

SeoulOS is a micro-kernel research project written in rust. It aims to be a proof-of-concept for running standard workloads on clusters of commodity hardware

2020   **Vinyl Linux**   https://github.com/vinyl-linux

Vinyl Linux is a Linux distribution centred around `vin`, a super-fast package manager written as a client/server pair in golang, and `vinyl linux-utils`, a busybox-alike set of standard tools, also written in golang. Vinyl Linux can parse and install `apk` packages from Alpine Linux

2019   **This CV**   https://github.com/jspc/cv

My CV is written in LaTeX, and is built and deployed through Github actions

2018   **go-lo**   https://github.com/go-lo/go-lo

A distributed load-testing platform, written in golang. `go-lo` is designed to run consistent, low-overhead load-tests. These load-tests are self contained golang apps which expose a control plane over gRPC and output results to `STDOUT` which are then forwarded into the TICK stack.

2017   **gincorp/gin**   https://github.com/gincorp/gin

A distributed workflow engine, written in golang, which uses rabbitmq as a job broker

2016   **Snooper Trooper**   https://github.com/jspc/snooper-trooper

Builds and deploys a docker OpenVPN and tor based gateway in digital ocean utilising ansible to deploy an instance with some cloud-config which runs containers on coreos. Designed to be used alongside https://github.com/jspc/privacy-dockerfiles in order to help secure and anonymise network traffic.

2015   **How to reinvent containers (with one weird trick)**

https://engineering.fundingcircle.com/blog/2015/03/12/navvy/

A deep-dive into containerisation by handcrafting a containerisation toolkit with bash

Employment

December 2019 - August 2020   **Scratch Financial**   Consultant Cloud Architect

Ownership of internal platform services, leading the design, implementation, and training for the re-platforming of Scratchpay.com. First line 1-to-1s for operations team. Budgeting and cost optimisation of processes and tooling, with an emphasis on self-service platforms and open-source tooling.

October 2018 - August 2019   **The Culture Trip**   Lead Site Reliability Engineer

Coaching engineers and squads, between a London team and a Tel Aviv team, towards thinking of Supportability first for products. Within this I spent roughly half of my time producing materials, with developer stakeholders, around training and policy for supporting products in production, and the other half developing tooling and interfaces for the monitoring and reporting of such services, including Confluence and Jira integration for incidents. Maintenance of third party integrations with Auth0, Cobalt.io, and NewRelic.

February 2017 - October 2018   **Beamly Ltd.**   Principal Engineer, Platform Lead

Solutionisation and build out, within my own team, of: metrics gathering, logging, error alerting, backup (with testing), and load and security testing of an estate of websites and services, largely backed by golang and docker (with containers hosted in Quay.io), in AWS, and with a mix of time series databases, such as influxdb, and document stores, such as Elasticsearch. The solution built was used across many teams internationally, which meant training and documentation was a very large part of the work we produced.

April 2016 - November 2016   **Financial Times**   Contract Integration Engineer

To architect, develop and roll-out the FT's new flagship video platform, including custom config management tooling, container platform, consul backed routing and API driven monitoring based on shopify's *dashing*, with logs being shipped into Splunk, and deployment artefacts being stored in Nexus.

July 2015 - April 2016   **Financial Times**   Contract Integration Engineer; API Technical Lead

To build and maintain a large scale API gateway for internal customers and b2b targets, and the governance thereof; while developing new products, coaching permanent staff toward their personal development goals, and training offshore teams in the management of this gateway.

November 2013 - June 2015   **Funding Circle**   DevOps Engineer

Green field build out of deployment tooling and testing platform, re-architecture of platform and underlying databases; development of DevOps practices and mentoring; editorship of the funding circle tech blog.

June 2013 - November 2013   **Hogarth Worldwide**   Senior DevOps Engineer

Management of large video platform for multinational advertising house, developer of ops tooling and creation and management of API gateway for client; mentorship of junior colleagues.

January 2012 - June 2013   **Simply Business**   Production Systems Administrator

Development and management of jit tooling platform, ops assistance and tooling to QA teams, development and management of backup and disk management tooling; mentorship and training junior colleagues.

July 2010 - December 2012   **Coreix ltd.**   Senior Technician/Lead

Management of pen testing, integration testing of cloud platforms, helped take down k00bface worm; internal tools development and testing.

| August 2005 - July 2010 | **Freelance** | Server/ Network/ Datacenter Technician |

Freelance engineer/ remote hands across the North of England, I handled kit outs of server rooms, co-location suite installation (including both the Dell Poweredge and the HP Proliant server platform, Cisco catalyst switches, and various rack mounted UPSs). During this time I also did callouts for unresponsive kit for a number of companies.

Education

| start 2017 | **Open university** | bachelor of engineering |

OU distance course

| 2009 | **University of Huddersfield** | secure and forensic computing |

Two years credits to a degree, no longer being pursued