



TROY CORNWALL

Contracting Software Developer

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WORK EXPERIENCE

- Contracting Senior Software Engineer

November 2019 - Present

Designing and building services for Ospri's Animal Traceability software

Achievements:
 - Designing how Single Sign On will work across the existing applications.
 - Implementing lazy user migrations so that users can move seamlessly into the new applications.
 - Updating legacy ASP.NET Forms application with urgent legislation changes.
 - Increasing Developer Security practices.
 - Design and roll out an Event Driven Microservice Architecture, using DotNetCore, Postgres, Kubernetes and Marten.
 - Introduce basic security testing at build time using Owasp ZAP.
 - Automating SSL Certificate renewals using Let's Encrypt and Azure Application Gateway and Azure Api Management.
 - Design, Build and Own the Identity Domain. Doing User Registrations and Account Management.

Technologies used:

DotNetCore

Kubernetes

Docker

DotNet Framework

PostgreSQL

Marten

Azure

Azure DevOps

Auth0

Microsoft SQL

Owasp ZAP

Ospri
- Contracting Senior Software Developer

September 2018 - November 2019

Working on a Project team, focusing on integrations for Z's Site Systems.

Achievements:
 - Launched Z Cards on Fastlane in December 2018.
 - Pushed Pumped into Caltex and Z in July 2019, along with a new platform for financial reporting on the loyalty schemes.
 - Delivered Z Biz Cards on Fastlane in September 2019.
 - Shipped Sharetank in September 2019, built on top of Pumped.

Technologies used:

DotNetCore

Mulesoft

Kubernetes

Terraform

Azure

Azure DevOps

Microsoft SQL

Z Energy
- Senior Security Developer

April 2018 - September 2018

Working on the Identity and Access Team. We implemented an OAuth Server, for user authentication, and process to process authentication

Achievements
 - Working on the Authorization and Authentication platform for Xero Api's and User Logins.
 - Created applications using DotNetCore to sync user logins between the new system and the legacy login.
 - Managing infrastructure using Terraform and databases using Flyway.
 - Worked with Aura for penetration testing of the solution.
 - Contributed to the DotNetCore Caching Library.

Xero

Technologies used:

- Dotnet
- EventStore
- AWS
- ECS
- Terraform
- Flyway

Contracting Software Developer

Crombie Lockwood

January 2017 - March 2018

Tech Lead for a Project with Heartland Bank. Quick Quoting Website with deep integrations in their existing CRM.

Delivered a second Project to link the Broker's systems with the Underwriters, to remove manual copying and pasting between emails and systems. Enabled automated quoting and approvals using Corticon as a rules engine

Achievements

- Delivered the Heartland Bank project ahead of schedule.
- Turned a bespoke application into resalable white labeled product.
- First time Broker and Underwriter systems have been linked in NZ.

Technologies used:

- DotNetCore
- MuleSoft
- Angular
- React
- Corticon

Software Developer

HealthLink

October 2015 - December 2016

Working on the HealthLink Messaging Client, A DevOps Proof Of Concept, and the National Immunization Register

Achievements

- Maintained a Java desktop application, deployed to over 14000 sites.
- Delivered a Continuous Integration and Delivery POC which reduced the deployment time from 120 minutes down to 4 minutes.
- Talked at DevOpsDays Wellington about the human side of DevOps and Change.

Technologies used:

- Java
- DotNetCore
- DotNet4.6
- Docker
- Rhapsody

Software Developer

Spark Ventures

November 2014 - October 2015

Working mostly on the Morepork product team, with occasional projects for the other Ventures, including BigPipe and Lightbox

Achievements

- Took the Morepork website from an idea to market, using Angular 1 website, JBoss ESB and NodeJS Backend Development.
- Reduced Bigpipe deployments from 1 hour 45 mins to 15 mins, and added Release management and the ability to Rollback.
- Started the Lightbox Data Warehouse project.

Technologies used:

- Java
- Angular
- Jenkins
- Puppet
- Jboss
- NodeJS
- CouchDB
- AWS

Research Assistant

Active Mobile Security

June 2014 - November 2014

Working for one of the University of Auckland's Start ups, helping test a Role Based Access Control platform for Android phones while going thru a pivoting and trying to exit.

Achievements

- Manual device testing of FireDroid on a mobile device.
- Integration Testing of their Rest API.
- Contributing to the Docker codebase.

Technologies used:

- Java
- Docker
- Jenkins
- Android

SKILLS & TOOLS

DotNetCore

DotNet Framework

Kubernetes

Docker

PostgreSQL

Microsoft SQL

Azure

AWS

Auth0

IdentityServer4

EventStore

Marten

Azure DevOps

Jenkins

Bamboo

Terraform

JavaScript

Angular

React

MuleSoft

Owasp ZAP

Burp Suite

REFERENCES

Winston Muller
Manager of Software development at Ospri
Email and Phone number available on request

Arnold Krijnen
Head of Development at Z Energy
Email and Phone number available on request