

TROY CORNWALL

Contracting Software Developer

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WORK EXPERIENCE

Contracting Technical Lead

Ministry of Education

November 2020 - Present

Replace the system responsible for allocating Funding and Staffing to all of New Zealand's Schools and Early Childhood Education Providers

The School's System is responsibile for allocating ~\$2 Billion NZD and ~45000 teachers every year.

Achievements:

- Design, build and own the School Domain from creation to release and beyond.
- Roll out an event sourced Microservice Architecture, using DotNetCore, Postgres, Kubernetes and Marten.
- Hit our goal of being developed and tested 4 months before the initial release
- Internal promotion to Tech Lead for Schools, across 5 Teams / 18 developers.
- CI/CD into over 20 environments.
- Facilitate 9 major releases into production, and many more smaller releases.

Technologies used:

DotNetCore ServiceBus **Duende IdentityServer** Kubernetes Marten Hangfire Azure DevOps **PostgreSQL Microsoft SQL** AngularJS

Contracting Senior Software Engineer

Ospri

November 2019 - October 2020

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:

Contracting Senior Software Developer

Z Energy

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

Senior Security Developer Xero

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.

Flyway

- 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.

Technologies used:



EventStore







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

HealthLink **Software Developer**

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 Wellignton about the human side of DevOps and Change.

Technologies used:

DotNetCore

DotNet4.6



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

NodeJS

CouchDB

Active Mobile Security

June 2014 - November 2014

Research Assistant

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:









