TROY CORNWALL

Contracting Software Developer

✉ cv@troycornwall.net

📱 0210 229 6304

in linkedin.com/in/troy-cornwall

troycornwall

🌐 cv.TroyCornwall.net

WORK EXPERIENCE

Contracting Senior Software Developer
Ministry of Education

November 2020 - Present

Rebuilding the system responsible for allocating Funding and Staffing to all of New Zealand's Schools and ECEs

Achievements:

- Design, build and own the School Domain.
- Roll out an event sourced Microservice Architecture, using DotNetCore, Postgres, Kubernetes and Marten.
- Ran event storming sessions to align domain design with the business team using their language.
- Hit our goal of being developed and tested 4 months before the initial release, allowing time for lots of user testing and enhancements

Technologies used:

DotNetCore Kubernetes Docker Marten ServiceBus Hangfire Azure Azure DevOps Duende IdentityServer 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:

DotNetCore Kubernetes Docker PostgreSQL Marten Azure Azure DevOps Auth0 Microsoft SQL Owasp ZAP

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.
- 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:

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 Wellignton 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

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` `Duende IdentityServer` `EventStore` `Marten` `ServiceBus` `Hangfire` `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