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Professional History

Kmart

Software Test Engineer

Melbourne

September 2021 - Present

- Quality Engineer for the customer account and identity team (MyAccount).
- Lead maintainer for Kmart Online's test automation and performance testing initiatives cross teams (MyAccount, Cart, Browse discovery).
- Wired up the existing automation suite, to run tests within the Buildkite CI/CD pipeline and set up additional cron jobs to run the tests.
- Uplifted the sunsetted automation framework from synchronous Webdriver.io to asynchronous Webdriver.io: adding linting, logging, email testing capability, and all around improvements of the stability of the test suite.
- Currently, migrating functional tests to run against stubs. So far, greatly reducing test run time: 50 tests that took 30 mins, down to 3 mins.
- Currently, migrating the Jmeter performance tests to K6 to uplift the performance testing workflow

Typescript/Javascript

Github Actions

Jmeter/K6

Webdriver.io

Wiremock

Docker

AWS

Two Bulls

Senior QA Engineer

Melbourne

September 2019 - August 2021

- Quality Engineer responsible for the test strategy, test creation, test execution and automation in agile environments for responsive web and native mobile applications.
- Provided DevOps support: created and maintained numerous CI/CD pipelines for native iOS and Android mobile applications and Game Engines.

QA Engineer

May 2017 - September 2019

- Responsible for test creation, execution and automation in both agile and waterfall environments on desktop and mobile based applications.
- Created a CI pipeline for a cross platform video distribution platform for the core, windows and native mobile application streams.
- Developed a script to install test builds for on-premise iOS and Android mobile devices for testing, greatly reducing the time to set up testing activities.

Javascript

Cypress

Appium

Github Actions

Jenkins

Gitlab

AWS

Featured Projects

Release.me - Web

- An off the plan real estate platform for developers and buyers.
- Developed an automation test suite using Cypress that ran as part of the CI/CD pipeline

Javascript

Cypress

Codepipelines

Scouts Australia - Web

- A digital web transformation to uplift the Scouts analogue paper system.
- Provided DevOps support: created a pipeline for running the regression automation test suite to support the teams ongoing automation efforts.
- Contributed to the ongoing development off the test automation suite.

Javascript

Cypress

Cloudformation

Codepipelines

Cloudformation

Lambda

S3

Cloudfront

Route53

Ufonik - Mobile

June 2021 – July 2021

- A tik-tok esque native mobile application designed for musicians and content creators.
- Developed a regression test suite including visual snapshot tests in XCUITest that ran as part of CI/CD
- Provided DevOps support: creating and maintaining the Buddybuild CI/CD pipeline for the iOS mobile app and integrated automation tests to run within the pipeline.

Swift

iOS

Buddybuild CI

XCUITest

Snapshot tests

21 Cricket - Mobile

May 2021 – June 2021

- A fitness and training mobile app focused on cricket for Michael Clark.
- Provided DevOps support: set up the code signing, created and maintained the CI/CD pipeline using Github Actions.
- Developed component widget tests in flutter.

Dart

Flutter

Github Actions

Fastlane

Service Victoria - Mobile

April 2017 – July 2021

- A mobile app to check-in throughout Victoria and securely store and share your identity including things like licences and permits.
- Provided DevOps support: created and maintained the Bitrise CI/CD pipelines, automating deployment of release builds to the Google Play and App store.

iOS

Android

Bitrise CI

Beyond Now - Mobile

Jan 2018 – September 2021

- Beyond blue's suicide safety planning app that assists you to create your own suicide safety plan; a plan to keep you safe when experiencing suicidal thoughts.
- Provided DevOps support: created and maintained the CI/CD pipeline for the iOS and Android native mobile apps.
- Developed the automation suite using Appium
- Created a smoke testing suite that ran on an AWS stack (Cloudwatch, Codepipelines, Lambda, S3, Device Farm) managed by Cloudformation templates.

Python

Appium

Buddybuild

Bitrise CI

Cloudwatch

Cloudformation

Lambda

S3

Route53

Codepipelines

Lambda

S3

Wiggles/Sesame Street Yourself/Oddbods oddlife - Mobile games

Jan 2018 – Dec 2018

- An engaging mobile Augmented Reality experience enabling children to sing and play along with their favorite screen characters.
- Provided DevOps support: created and maintained the CI/CD pipeline for the Game Engine team using Gitlab.

iOS

Android

Gitlab

Buddybuild CI

Bitrise CI

Locust

Verizon Digital Kiosk - Embedded system

2017 – 2018

- Communications hubs that connect people to important and useful information - providing weather and emergency alerts, maps and local community information about transit, restaurants, businesses and events.
- Provided DevOps support: maintained the existing Bitrise CI/CD pipeline for the android applications developed for the Digital Kiosk.
- Developed a regression automation suite using bats (bash automation testing framework).
- Created a script to download test builds from Bitrise (CI) to install on the Digital Kiosk towers for testing, greatly reducing the set up time for regularly occurring testing activities.

Android

Bash

Bitrise CI

Vividas - Video Player SDK

2017 – 2018

- Cross platform video distribution and playback service for mobile and desktop.
- Provided DevOps support: maintaining the Jenkins build master and slaves and the CI pipeline to build the core video engine and the native iOS and Android mobile applications.
- Migrated away from the use of Jenkins jobs to using a declarative Jenkins pipeline that could be versioned controlled

iOS

Android

Windows app

Jenkins

Technical Skills

Programming Languages: Typescript/Javascript, Python, Bash, Golang, \LaTeX

Test Automation: Webdriver.io, Playwright, Cypress, Cucumber, Supertest, Jest, Storybook, XCUITest, Appium, Wiremock, Axe

CI/CD Github Actions, Jenkins, Gitlab, Bitrise, Buildkite, Buddybuild, Bitbucket pipelines

Performance: Jmeter, K6, Locust, Lighthouse

Amazon Web Services (AWS): EC2, ECS, S3, IAM, Cloudwatch, Lambda, Cloudformation, Cloudfront, Route53, Codepipelines

Containers/IaC Docker, AWS CDK, Cloudformation

Quality: Test planning, Progression, Regression, Smoke/Sanity, UAT, PVT, Performance, Compatibility, Accessibility, User testing

API testing: REST, GraphQL

Monitoring: New Relic, Sumologic

Version control: Git, Github, Gitlab, Bitbucket

Development tools: Neovim, Tmux, Alacritty, Vscode

Operating Systems: Linux (Ubuntu, PopOS, Archlinux) macOS, Windows

Training and Certification

OWASP Appsec Day 2019
Web Hacking Essentials

Melbourne, Australia
November 2019

Education

RMIT University
B.S. Electrical Engineering/Commerce

Melbourne, Australia
March 2012 - July 2017
