

ALSTON LIN

FULL STACK + INFRASTRUCTURE

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LANGUAGES

Java
JavaScript / ES6
Python
C / C++
C#
SQL
Ruby
Bash
Go

FRONT END

Android
React.js
jQuery
Unity

BACK END

Rails
Node.js
PostgreSQL
MongoDB

TOOLS

Docker + Kubernetes
Jenkins
AWS + Google Cloud

AWARDS

WILDHACKS 2015
Second Place

PENNAPPS XIV
Linode Sponsor Prize

QHACKS 2016
AWS Sponsor Prize

CANADIAN COMPUTING
COMPETITION
120th Place of 1200+

TMX OPTIONS TRADING
SIMULATION
36th Place of 1700+

EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Software
Engineering
Class of 2020 (Expected)

WORK EXPERIENCE

YELP

SOFTWARE ENGINEERING INTERN

AUGUST 2017 - ONGOING

San Francisco, CA

- Specified and created a [code debt tracking service](#) & integrated it to the code review flow
- Added [horizontal scaling](#) to the existing [Docker](#) container orchestration infrastructure

Python, JavaScript, React.js, MySQL, Docker

WEBVELOPER

FREELANCE DEVELOPER

MARCH 2017 - AUGUST 2017

Palo Alto, CA (Remote)

- Implemented API endpoints to [orchestrate containers](#) on [Kubernetes](#) for customers
- Architected a templating framework to allow users to customize their containers
- Created a [Jenkins pipeline](#) to build and deploy commits for [continuous integration](#)
- Built a framework to automatically [provision email systems](#) for users using containers
- Developed an online [subscription](#) and single charge [payment system](#) using Stripe

JavaScript / ES6, Node.js, React.js, PostgreSQL, Docker, Kubernetes, Jenkins

IBM

JAVASCRIPT DEVELOPER (INTERN)

JAN - APRIL 2017

Ottawa, ON

- Developed a [CLI](#) to interact with IBM Bluemix's Open Toolchain API
- Implemented the ability to serialize and restore toolchains and their services
- Migrated the Eclipse Orion codebase from [AMD + RequireJS](#) to [ES6 + Webpack](#)
- Created a toolchain broker to provision and use [containers](#) as a dev. environment
- Migrated the deployment of the entire Bluemix DevOps Services to [Kubernetes](#)

JavaScript / ES6, Node.js, Go, CouchDB, Docker, Kubernetes

ENCIRCLE

SOFTWARE DEVELOPER (INTERN)

MAY - AUG 2016

Kitchener, ON

- Submitted [200+ pull requests](#) to the database, server, web, and Android code base
- Developed a [V8 debugger](#) capable of debugging JavaScript code running on Android
- Built a custom mobile JavaScript integration [testing framework](#)
- Created an automated [build script](#) for the web app using [webpack](#)
- Incorporated a client side [heartbeat](#) for [web sockets](#) in the Android and web app
- Implemented a [blob uploading](#) API endpoint with an Android and web interface for it

JavaScript, Python, Java, C++, Android, React.js, PostgreSQL, JNI

EVEREST MEDIA GROUP (CLIQ)

FREELANCE DEVELOPER

JAN - AUG 2016

London, ON (Remote)

- Built the entire front and back end of the app from requirements to production
- Incorporated an online [payment system](#) to create a [marketplace](#) using [Stripe](#)
- Implemented a [music player](#) including a track queue and player controls
- Incorporated an [analytics dashboard](#) that will keep track of various statistics of a user
- Deployed the app into an [AWS](#) production server with [blue / green](#) deployment

Ruby, Rails, JavaScript, HTML / CSS, Bootstrap

PROJECTS

Complete list at [alstonlin.io](#)

LEARNING LOCK

See it at [bit.ly/2cRZl1x](#)

A lock screen that learns how you unlock your phone to detect and lock out impostors even if they know your pattern. [7000+](#) Downloads

Android, Java, Machine Learning

CALCULALL

See it at [bit.ly/1YJ2H7n](#)

An Android calculator that can display fractions, perform indefinite integration, diagonalize matrices, and more. [4000+](#) Downloads

Android, Java