

# ALSTON LIN

## FULL STACK + INFRASTRUCTURE

alstonlin.io | alstonlin812@gmail.com | 415.994.7689  
github.com/AlstonLin | devpost.com/AlstonLin

## 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 [TCP healthchecks](#) to the [container](#) infrastructure for all non-HTTP services at Yelp
- 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