

# 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

AUGUST 2017 - ONGOING

San Francisco, CA

#### SOFTWARE ENGINEERING INTERN

- Designed and created a **code debt tracking service** & integrated it to the code review flow
- Added **automatic msgpack + zlib compression** to Yelp's service and clientlib infrastructure
- Optimized unmarshalling in clientlibs, improving **performance by 10%+** for large bodies
- Added **TCP healthchecks** to the **container** infrastructure for all non-HTTP services at Yelp

Python, JavaScript, React.js, Cassandra, Docker

### WEBVELOPER

MARCH 2017 - AUGUST 2017

Palo Alto, CA (Remote)

#### FREELANCE DEVELOPER

- 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

JAN - APRIL 2017

Ottawa, ON

#### JAVASCRIPT DEVELOPER (INTERN)

- 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

MAY - AUG 2016

Kitchener, ON

#### SOFTWARE DEVELOPER (INTERN)

- 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)

JAN - AUG 2016

London, ON (Remote)

#### FREELANCE DEVELOPER

- 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](http://alstonlin.io)

### LEARNING LOCK

See it at [bit.ly/2cRZl1x](http://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. **7500+ Downloads**

Android, Java, Machine Learning

### CALCULALL

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

An Android calculator that can display fractions, perform indefinite integration, diagonalize matrices, and more. **4000+ Downloads**

Android, Java