

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

AUGUST 2017 - ONGOING

San Francisco, CA

SOFTWARE ENGINEERING INTERN

- 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

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

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