

ALSTON LIN

JS + RAILS + ANDROID DEVELOPER

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LANGUAGES

Java
JavaScript / ES6
Python
C / C++
C#
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

WEBVELOPER

FREELANCE DEVELOPER

MARCH 2017 - ONGOING
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
- 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 - SEPT 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

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

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. **1000+ Downloads**
Android, Java, Machine Learning

MURIQUI

See it at muriqui.xyz

A web app where students can crowd source unit tests for CS assignments.
Ruby, Rails, JavaScript, HTML/CSS, Bootstrap