

ALSTON LIN

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EDUCATION

UNIVERSITY OF WATERLOO

Bachelor of Software Engineering
Class of 2020 (Expected)

NATIONAL UNIVERSITY OF SINGAPORE

Exchange Student
January - May 2018

LANGUAGES

JavaScript / ES6

Python

Java

C / C++

SQL

Ruby

Bash

Go

FRONT END

React.js

Android

JQuery

BACK END

Rails

Node.js

PostgreSQL

MongoDB

TOOLS

Docker

Kubernetes

Jenkins

Chef

AWS + GCE + Azure

AWARDS

WILDHACKS 2015

Second Place

PENNAPPS XIV

Linode Sponsor Prize

QHACKS 2016

AWS Sponsor Prize

CANADIAN COMPUTING
COMPETITION

Top 10%

TMX OPTIONS TRADING
SIMULATION

36th Place of 1700+

WORK EXPERIENCE

PAGERDUTY

SITE RELIABILITY ENGINEERING INTERN

MAY 2018 - ONGOING

San Francisco, California

- Authored a proposal and specification for PagerDuty to use **Infrastructure as Code**
- Joined the **on call** rotation, conducting and participating in **incident responses**
- Added metrics to the service discovery tool and used them to publish an **uptime SLO**

Ruby, Python, Chef, Docker, Consul, Nomad, Terraform

WEBVELOPER

CO-FOUNDER & LEAD DEVELOPER

MARCH 2017 - ONGOING

Palo Alto, California (Remote)

- Led a team of several engineers to develop the web app, generating **over \$200k ARR**
- Added endpoints to **orchestrate containers** in **Kubernetes** on demand for customers
- Architected a templating framework to allow users to customize their containers
- Developed an online subscription and single charge payment system using Stripe
- Maintained 100% branch-level test coverage across the back end code base

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

YELP

SOFTWARE ENGINEERING INTERN - CORE BACKEND

AUGUST 2017 - DECEMBER 2017

San Francisco, California

- Created a **code debt tracking service** and integrated it into 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 health checks to the container infrastructure for all non-HTTP services at Yelp

Python, JavaScript, React.js, Cassandra, Docker

IBM

JAVASCRIPT DEVELOPER (INTERN)

JAN - APRIL 2017

Ottawa, Canada

- Researched and prototyped a **migration of Bluemix's infrastructure to Kubernetes**
- Developed a CLI to interact with IBM Bluemix's Open Toolchain API
- Migrated the Eclipse Orion codebase from AMD + RequireJS to ES6 + Webpack
- Created a toolchain broker to provision and use **containers as a dev. environment**

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

ENCIRCLE

SOFTWARE DEVELOPER (INTERN) - FULL STACK & MOBILE

MAY - AUG 2016

Kitchener, Canada

- 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

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

EVEREST MEDIA GROUP (CLIQ)

FREELANCE DEVELOPER

JAN - AUG 2016

London, Canada (Remote)

- Incorporated an online **payment system** to create a **marketplace using Stripe**
- Developed a music player that includes 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. **7500+ 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