

ALSTON LIN

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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

PENNA APPS XIV
Linode Sponsor Prize

QHACKS 2016
AWS Sponsor Prize

CANADIAN COMPUTING
COMPETITION
Top 10%

TMX OPTIONS TRADING
SIMULATION
36th Place of 1700+

EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Software
Engineering
Class of 2020 (Expected)

NATIONAL UNIVERSITY OF
SINGAPORE
Exchange Student
January - May 2018

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** on **Kubernetes** for customers on demand
- Architected a **templating framework** to allow users to customize their containers
- Developed an online **subscription** and single charge **payment system** using **Stripe**
- Maintained **100% 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

- 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 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

EVEREST MEDIA GROUP (CLIQ)

FREELANCE DEVELOPER

JAN - AUG 2016
London, Canada (Remote)

- 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. 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