

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

Python

PHP / Hack

Java

C / C++

Objective C

SQL

Ruby

Bash

FRONT END

React.js / React Native

Angular.js

Android

iOS

BACK END

Node.js

Rails

GraphQL

TOOLS

Docker / Docker Compose

Kubernetes / Helm

Jenkins / Spinnaker

Chef

Terraform

Consul / Nomad

AWS / GCE / Azure

PROJECTS

LEARNING LOCK

bit.ly/2cRZ11x

A lock screen that learns how you unlock your phone to detect and lock out impostors even if they know your pattern.

5000+ Downloads

Android, Java, Machine Learning

CALCULALL

bit.ly/1YJ2H7n

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

4000+ Downloads

Android, Java

Complete list at alstonlin.io

WORK EXPERIENCE

webveloper

CO-FOUNDER & SOFTWARE ENGINEER

MAR 2017 - ONGOING
San Francisco, California (Remote)

- Led a team of several engineers to develop the web app, generating **over \$200k ARR**
 - Architected a **microservice ecosystem** with a **cloud-native** infrastructure
 - Architected a **deployment system** using Spinnaker pipelines to deploy k8s services
- JavaScript / ES6, Node.js, React.js, Docker, Helm / Kubernetes, Jest, Terraform

WATONOMOUS

DIRECTOR OF SOFTWARE

MAY 2019 - ONGOING
Waterloo, Canada

- Led a division of **50+ engineers** to develop a **level 4 autonomous vehicle**
 - Oversaw management of the perception, processing, path planning and infrastructure teams
 - Led the overall system architecture and ensured successful integration between modules
- ROS, C++, Python

Google

SOFTWARE ENGINEERING INTERN - SEARCH ADS

SEP 2019 - DEC 2019
Seattle, Washington

- Added scripts to regularly **parse ads pipeline & database metadata** to store in a database
 - Created a tool to perform common complex queries on ads pipeline & database metadata
 - Created a visualizer to **illustrate dependency relationships** between ads pipelines
- C++, Python, JavaScript, Angular, Flask

facebook

SOFTWARE ENGINEERING INTERN - DATING (FULL STACK)

JAN 2019 - APR 2019
Menlo Park, California

- Improved retention by allowing users to configure which Dating notification types are sent
 - Added **Instagram integration**, enabling users to show their Instagram profile on Dating
 - Created a Dating **image picker**, fetching photos from their phone, Facebook, and Instagram
 - Migrated the Dating profile page **to React Native** from native Android / iOS
- Hack (PHP), JavaScript / Flow, React Native, Java, Android, iOS, Objective C, GraphQL

pagerduty

SITE RELIABILITY ENGINEERING INTERN

MAY 2018 - AUG 2018
San Francisco, California

- Authored and implemented a proposal to use **Infrastructure as Code** using a Github bot
 - 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

yelp

SOFTWARE ENGINEERING INTERN - CORE BACKEND

AUG 2017 - DEC 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
 - Added TCP health checks to the container infrastructure for all non-HTTP services at Yelp
- Python, JavaScript, React.js, Cassandra, Docker, Docker Compose

IBM

JAVASCRIPT DEVELOPER (INTERN)

JAN - APR 2017
Ottawa, Canada

- Researched and prototyped a **migration** of Bluemix's infrastructure **to Kubernetes**
 - Developed and released a CLI to interact with IBM Bluemix's Open Toolchain API
 - 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

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

everest

FREELANCE DEVELOPER

JAN - AUG 2016
London, Canada (Remote)

- Incorporated an online **payment system** to create a **marketplace using Stripe**
 - Incorporated an **analytics dashboard** that will keep track of various statistics of a user
- Ruby, Rails, JavaScript, HTML / CSS, Bootstrap