

# 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/2cRZ1x

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](http://alstonlin.io)

## WORK EXPERIENCE

### facebook

SOFTWARE ENGINEER

AUG 2020 - ONGOING

New York, New York

### webveloper

CO-FOUNDER & SOFTWARE ENGINEER

MAR 2017 - JUL 2020

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 - APR 2020

Waterloo, Canada

- Led a division of **50+ engineers** to develop a **level 4 autonomous vehicle**

- Coordinated work between 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

- Added **Instagram integration**, enabling users to show their Instagram profile on Dating

- Created a Dating **image picker**, fetching photos from their phone, FB, 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

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