ALSTON LIN

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EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Software Engineering
Class of 2020

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/2cRZl1x
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

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