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
Android
iOS

BACK END

Node.js
Rails
GraphQL

TOOLS

Docker / Docker Compose
Kubernetes / Helm
Jenkins / Spinnaker
Chef
Terraform
Consul / Nomad
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

facebook
JAN 2019 - APR 2019
SOFTWARE ENGINEERING INTERN - DATING (FULL STACK) — 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

webveloper
MAR 2017 - ONGOING
CO-FOUNDER & LEAD DEVELOPER — Palo Alto, 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 orchestrate Jenkins jobs
JavaScript / ES6, Node.js, React.js, Docker, Helm / Kubernetes, Jest, Terraform

pagerduty
MAY 2018 - AUG 2018
SITE RELIABILITY ENGINEERING INTERN — 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
AUG 2017 - DEC 2017
SOFTWARE ENGINEERING INTERN - CORE BACKEND — 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
JAN - APR 2017
JAVASCRIPT DEVELOPER (INTERN) — 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
MAY - AUG 2016
SOFTWARE DEVELOPER (INTERN) - FULL STACK — Kitchener, Canada
- Developed a **V8 debugger** capable of debugging JavaScript code running on Android
- Built a custom mobile JavaScript **integration testing framework**
- 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)
JAN - AUG 2016
FREELANCE DEVELOPER — 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
Ruby, Rails, JavaScript, HTML / CSS, Bootstrap

PROJECTS

Complete list at alstonlin.io

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