ALSTON LIN

FULL STACK + ANDROID DEVELOPER

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LANGUAGES

Java
JavaScript
Python
C / C++
HTML / CSS
C#
Ruby
Bash

FRONT END

Android
React.js
JQuery
Unity
Bootstrap

BACK END

Rails
Node.js
PostgreSQL
MongoDB

AWARDS

WILDHACKS 2015
Second Place

PENNAPPS XIV
Linode Sponsor Prize

QHACKS 2016
AWS Sponsor Prize

CANADIAN COMPUTING
COMPETITION
120th Place of 1200+

TMX OPTIONS TRADING
SIMULATION
36th Place of 1700+

EDUCATION

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

WORK EXPERIENCE

ENCIRCLE
MAY - AUG 2016
SOFTWARE DEVELOPER
- Submitted **200+ pull requests** to the database, server, web, and Android code base
- 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
- Implemented a **blob uploading** API endpoint with an Android and web interface for it
- **Optimized rendering** of lists for large data by preventing unnecessary re-renders
JavaScript, Python, Java, C++, Android, React.js, PostgreSQL, JNI

TRUTECH INNOVATIONS
JUN 2014 - ONGOING
FOUNDER AND HEAD DEVELOPER
- Led a team of several developers to complete various projects using **Scrum**
- Architected, documented, and implemented the high-level back end infrastructure
- Designed and implemented a custom **ACL** based **permissioning framework**
- Incorporated an automated **unit and integration testing platform**
- Designed the RESTful API using **Swagger** and abstracted server calls into **view models**
JavaScript, Java, Android, Node.js, React.js, PostgreSQL

EVEREST MEDIA GROUP (CLIQ)
JAN - SEPT 2016
FREELANCE DEVELOPER
- Built the entire front and back end of the app from requirements to production
- Designed and implemented **over 20 tables** into the database
- 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

CLIQ
See it at cliq.fm (Closed Beta)
A social media web app where musicians can connect with their fans and share
exclusive content to those that join their Cliq.
Ruby, Rails, JavaScript, HTML / CSS, Bootstrap

CALCULALL
See it at bit.ly/1YJ2H7n
An Android calculator that can display fractions, perform indefinite integration,
diagonalize matrices, and more. *900+ Downloads*
Android, Java

LEARNING LOCK
See it at bit.ly/2cRZl1x (Open Beta)
A lock screen that learns how you unlock your phone to detect and lock out impostors
even if they know your pattern.
Android, Java, Machine Learning

MURIQUI
See it at muriqui.xyz
A web app where students can crowd source unit tests for CS assignments.
Ruby, Rails, JavaScript, HTML/CSS, Bootstrap