







# ALSTON LIN

## ANDROID + RAILS DEVELOPER

Software Engineering 2020 @ University of Waterloo

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## LANGUAGES

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

## FRONT END

Android  
jQuery  
React.js  
Unity  
Bootstrap

## BACK END

Rails  
Node.js  
PostgreSQL  
MongoDB  
Meteor.js

## INTERESTS

Machine Learning  
Design Patterns  
Graph Theory  
3D Graphics

## WORK EXPERIENCE

### ENCIRCLE

MAY - AUG 2016

#### SOFTWARE DEVELOPER

- Implemented various features in the database, server, web, and Android codebase
- 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*

### EVEREST MEDIA GROUP (CLIQ)

JAN 2016 - ONGOING

#### FREELANCE DEVELOPER

- Built the entire front and back end of the app, bringing the project from requirements to a shipped product
- Designed and implemented over 20 tables into the database
- Incorporated an online payment system using Stripe

*Ruby, Rails, JavaScript, HTML / CSS, Bootstrap*

## PROJECTS

*Complete list at <http://alstonlin.io>*

### CLIQ

*See it at <http://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 <http://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 <http://bit.ly/2cRZl1x> (Open Beta)*

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

*Android, Java, Machine Learning*

### MURIQUI

*See it at <http://muriqui.xyz>*

A web app where students can crowdsource unit tests for CS assignments.

*Ruby, Rails, JavaScript, HTML/CSS, Bootstrap*

### CASTLE ESCAPE VR

*See it at <http://bit.ly/2cmelvk>*

An Infinite Runner game where players dodge lava and collect fuel with their jetpack in Virtual Reality.

*Unity, C#, 3D Graphics*

## AWARDS

### WILDHACKS 2015

November 2015

SECOND PLACE out of 200+ team

Northwestern University

### TMX OPTIONS TRADING SIMULATION

April 2015

CERTIFICATE OF EXCELLENCE, Top 36 of 1700+

TMX Montreal Exchange