# ALSTON LIN

## University of Waterloo
## Software Engineering

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## PROJECTS

### CALCULALL
**June 2014 - September 2015**

*https://play.google.com/store/apps/details?id=com.trutechinnovations.calculall*

An Android calculator that can display fractions, perform indefinite integration, diagonalize matrices, and more.

Java, XML, Android, Data Structures, Concurrent Programming, Design Patterns, Algorithms

### POLARFEED
**November 2015**

An Android Application where users of an event can share pictures online.

Java, XML, JavaScript, Android, Node.js, MySQL, Networking, Concurrent Programming, Databases, RESTful APIs

### MURIQUI
**November 2015 - Ongoing**

A Rails website where students can share their unit tests for Computer Science assignments.

Ruby, JavaScript, HTML/CSS, Bootstrap, Rails, Networking, Databases

### WAR OF THE AGES
**October - December 2013**

A Real Time Strategy game where users build their city, economy, and army and play against an AI or others online.

Java, Graph Theory, Data Structures, Networking, Design Patterns

### BLOCK SURVIVAL
**October 2012 - December 2012**

A 3D sandbox game, similar to Minecraft, created in Java and JMonkeyEngine (OpenGL Engine).

Java, 3D Graphics, Concurrent Programming, Design Patterns, Data Structures

## JOB EXPERIENCE

### FOUNDER AND HEAD DEVELOPER
**TruTech Innovations Inc.**
**June 2014 - Present**

Developed high level frameworks for Android and Web apps

Coordinated a team of several developers to complete projects

Planned and Executed various business strategies

*Projects: Calculall*

### LIFEGUARD AND AQUATICS INSTRUCTOR
**City of Markham**
**March 2014 - August 2014**

Maintained safety of patrons within the pool area

Provided first aid according to guidelines when required

Organized class activities to facilitate progressive learning

## AWARDS

### WILDHACKS 2015
Second Place
**Out of 200 Teams**
Northwestern University, November 2015

### CANADIAN COMPUTING COMPETITION
Certificate of Distinction
**Top 130 of 1200**
University of Waterloo, April 2014

### TMX OPTIONS TRADING SIMULATION
Certificate of Excellence
**Top 36 of 1700**
TMX Montreal Exchange, April 2015

### FRENCH IMMERSION CERTIFICATE
Completed twelve years of education in French
York Region District School Board, June 2014

## LANGUAGES

Java ●●●

Python ●●○

C / C++ ●●○

HTML / CSS ●●○

JavaScript ●●○

Ruby ●○○

**Fluent in English, French, and Mandarin**

## TECHNOLOGIES

Android ●●●

Rails ●●○

Bootstrap ●●○

Meteor.js ●○○

Node.js ●○○

## THEORIES

Design Patterns ●●●

Data Structures ●●●

Graph Theory ●●○

Algorithms ●●○

3D Graphics ●○○

Machine Learning ●○○