



# Simon Law

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## EDUCATION

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**University of California, San Diego | La Jolla, CA**  
*Bachelor of Science, Mathematics Computer Science*

Graduation Date: June 2019

## TECHNICAL SKILLS

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*Languages:* Java, Javascript, C++, C, HTML, CSS

*Frameworks/Library:* AngularJS, jQuery, Express.js, Node.js, Bootstrap, Chai, SQL, Cucumber, Protractor, Karma

*Tools:* Git, GDB, MongoDB, JUnit, Jira, Android ADT, Circle CI, Espresso, Robolectric, Firebase

## EXPERIENCE

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**Everyone Counts Inc** *Software Engineering Intern* June - Sept 2016

- Developed a behavior driven development framework using Cucumber and Protractor to automate regression tests and to test front end functionality.
- Updated the New Jersey Statewide Voter Facing Site using a slave database for real time updates
- Remodeled the New Jersey Statewide Voter Facing Site using AngularJS with a modernized UI
- Optimized APIs for faster user speeds and network efficiency

**ThoughtSTEM** *Mentor* June - Sept 2014

- Taught fundamental programming concepts such as loops and boolean logic to students with Scratch.
- Assisted students with computational and conceptual problems and guided debugging process with students

**Gateways Summer School** *Teacher Assistant* June - Aug 2014

- Prepared course material, planned the class schedule, and lectured to the class
- Assisted children to help them master class concepts or reinforce struggling areas.

## PROJECTS

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**FoodStop (SD Hacks Project)** - <https://foodstop.meteor.com/>

- Outputted food locations along a route, or around the estimated area if an estimated meal time was given.
- Utilized Google Maps API for time estimations and Yelp API for food locations.
- Designed front end for the web application using HTML/CSS/Bootstrap.

**Quizpedia** - <https://quizpedia1.herokuapp.com/>

- Designed front and back end for a web application using MongoDB, Node.js, Express.js, and AngularJS.
- Allowed user to upload questions to the database and would pull the last 5 questions entered in a quiz.

**CoupleTones**

- Designed an Android Application to notify a user when their partner approaches one of their favorite locations.
- Implemented the notification services using Google Cloud Messaging.

**Calculator**

- Created a command line program with functionality to add, subtract, multiply, divide, exponent, factorial.
- Implemented algorithm using two stacks to convert infix notation to postfix and evaluated the resulting stack.

**Gomoku**

- Created a 5 in a row board game in Java based off of the Korean board game Gomoku.
- Implemented general rules and restrictions as well as a multiplayer function.

**Snake**

- Constructed an imitated version of the classic game Snake utilizing Acme and built in Java.
- Allowed custom sizes and delays with keyboard controlled movements for the snake.