

# Paul Wallace



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## Objective

To develop meaningful and innovative software using my knowledge of software engineering, problem solving skills and experience.

## Experience

**Education First – Software Engineering Intern**      *Shanghai, China*      June – August 2015

- Creative **designer, engineer** and **presenter** for new prototype classroom application
  - **Swift | Objective-C | Xcode | Firebase | iBeacons | Strategy and Singleton Pattern**
- Developed the back-end, front-end, DB design, application architecture, UI and UX with lead mobile architect and QA tester
- Utilized Apple maps SDK and the Firebase API for innovative live updating features

## Education

**University of California San Diego**

B.S. Computer Science

GPA: 3.407

Provost Honors – UCSD

Highest Honors – Castro Valley High School

## Skills

### My box of skills

Languages	Tools/Libs/Misc	Computer Science
<ul style="list-style-type: none"><li>• <b>Swift</b></li><li>• <b>Objective-C</b></li><li>• <b>Java</b></li><li>• Bash</li><li>• C/C++</li><li>• <b>HTML5</b></li><li>• <b>CSS3</b></li><li>• <b>JavaScript</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Xcode</b></li><li>• Eclipse</li><li>• Vim/Mvim/Gvim</li><li>• IntelliJ</li><li>• <b>Firebase</b></li><li>• Node.js</li><li>• <b>UNIX</b></li><li>• Sublime</li><li>• <b>UI and UX Design</b></li><li>• Angular.js</li></ul>	<ul style="list-style-type: none"><li>• Binary trees/tries</li><li>• Multiway-tries</li><li>• Ternary tries</li><li>• Hash Tables</li><li>• Linked Lists</li><li>• <b>Graphs</b></li><li>• <b>Dijkstras, BFS, DFS</b></li><li>• <b>Design Principles</b></li><li>• <b>SCRUM</b></li></ul>

## Projects

### **Tether** – Mobile Application

*Swift, Objective-C, Xcode, Firebase, iBeacons, Apple Maps SDK*

- Developed application to demonstrate creative new ideas for classroom teaching (more info on my LinkedIn profile: <http://linkedin.com/in/paulwall43>)

### **Triton Battles** – Web Application

*HTML5, CSS3, JavaScript, Mongo DB, OAuth2, Jasmine, Phantom.js, Karma, Node.js, Express.js*

- Wrote JavaScript, HTML and CSS for core functionality
- Utilized DB API to fetch and retrieve info for the website
- Tested application extensively to ensure high quality using Karma and Jasmine

### **Go** – Desktop Application

*Java, Eclipse, log4j*

- Engineered the Chinese board game, Go from scratch using Java and Eclipse
- Currently Developing basic AI

### **Calculator** – Desktop Application

*Java, C++, C, Vim*

- Developed Calculator with multiple implementation methods:
  - Stack, Hash Table, Binary Tree, Linked List