

# SHANGWAY HSU

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## OBJECTIVE

A student interested in gaining experience as a software engineer.

## EDUCATION

### University of California, San Diego

2018

B.S. Computer Science

Intended Minor: Cognitive Science

Cumulative GPA: 3.66

Coursework:

Major GPA: 3.86

- Introduction to Computer Science: Java I & II
- Data Structures and Object-Oriented Design
- Math/Algorithm & System Analysis
- Computer Organization and Systems Programming
- Calculus and Analytic Geometry for Science and Engineering
- Linear Algebra

## SKILLS

- Java
- Python
- Unix
- Git
- HTML
- Basic understanding of:
  - C
  - C++
  - Swift/iOS/Xcode

## EXPERIENCE

### Intern

#### SLAC National Accelerator Laboratory

Jun 2015 – Aug 2015

- Implemented a model of Particle Swarm Optimization for simulations of SLAC's LCLS. (C++)
- Analyzed data by creating graphs and charts using a MATLAB library in python.

### Swim Instructor

#### De Anza Cupertino Aquatics

Jun 2014 – Sep 2014

- Taught students ranging from ages 3 to 40 year olds using DACA's swimming curriculum.

### Team Member

#### Dim Sum King

Mar 2014 – May 2011

- Serve customers Chinese take out food.
- Duties include: operating the cash register, packing food, taking orders in Chinese.

### Teacher Assistant

#### Cupertino Kung Fu Club

Jan 2011 – May 2011

- Performed Kung-Fu demonstrations.
- Taught a small class of 4 kids.

## PROJECTS

### Personal Website

- <http://shangwayhsu.github.io/>
- Implemented with Bootstrap

### To-do List iOS app

- Written in Swift/Xcode

### Replica of 2048 Puzzle

- Backend created using Java
- GUI created using JAVAFX 8

<https://github.com/ShangwayHsu>