



SHANGWAY HSU

Cell: 408.368.9917 | shangway.hsu@gmail.com | <https://www.linkedin.com/in/shangwayhsu>

OBJECTIVE

A student looking for a software engineer internship.

EDUCATION

University of California, San Diego

2018

B.S. Computer Science

Minor: Cognitive Science

Cumulative GPA: 3.66

Coursework:

Major GPA: 3.86

- Advanced Data Structures and Object-Oriented Design
- Mathematics for Algorithms and Systems
- Computer Organization and Systems Programming
- Calculus and Analytic Geometry for Science and Engineering
- Linear Algebra

SKILLS

- Java
- Python
- Unix
- Git
- HTML/CSS/Javascript

Working Knowledge:

- C
- C++
- Swift/iOS/Xcode

EXPERIENCE

Intern

SLAC National Accelerator Laboratory
(Stanford Linear Accelerator Center)

Jun 2015 – Aug 2015

- Implemented an optimization algorithm called Particle Swarm to find an optimal configuration for SLAC's LCLS in order to form a coherent electron beam. (C++)
- Analyzed data by creating graphs, charts, and movies using the MATLAB library in python.

PROJECTS

Personal Website

- <http://shangwayhsu.github.io/>
- Implemented with BootStrap
- Used as project portfolio

To-do List iOS app

- Written in Swift/Xcode

Replica of 2048 Puzzle

- Backend created using Java
- GUI created using JAVAFX 8
- Can be played with command line

<https://github.com/ShangwayHsu>