Cody Pham

(858) 397-8438 | codyjpham@gmail.com | codypham.com | linkedin.com/in/codypham | github.com/codypham

Education:

Major: Bachelor of Science, Computer Science

2014 - Present: University of California, San Diego (Projected Graduation: 2018)

Completed Relevant Coursework: Data Structures, Object-Oriented Programming, Software Tools and Techniques Laboratory, Assembly Programming, Discrete Mathematics in Algorithms and Computer Systems

Relevant Coursework in Progress: Advanced Data Structures, Software Engineering

Skills:

Languages: C/C++, Java, ARM Assembly, HTML/CSS, Shell Script

Tools: GDB, Git, Linux/Unix, Valgrind, Vi/Vim

Work Experience:

UC San Diego Computer Science and Engineering   January 2016 – Present

Tutor for CSE 8B, Object-Oriented Programming / Java II   San Diego, CA

- Write and test solution code for Java programming assignments and run grading scripts
- Host lab hours to assist students with bugs and logical errors in programming assignments
- Familiarize students with Java programming concepts such as inheritance and polymorphism

Personal/Academic Projects:

Dynamic Auto-Complete   February 2016

- Programmed a C++ application that will auto-suggest word and/or phrase completions based on user input and word frequency
- Implementation included a combination of custom dictionary tries and priority queues to optimize runtime efficiency

File Compression Program   January 2016

- Developed a file compression program using the Huffman encoding algorithm
- Converted standard C++ priority queues from maximal to minimal priority queues

C and ARM Sorted ArrayLists   October 2015

- Implemented Java sorted ArrayLists in C and ARM assembly language
- Used ARM assembly for low level memory and register management

2048 App Rebuild   March 2015

- Rebuilt the game 2048 from its original language of JavaScript into Java
- Designed a GUI using the JavaFX library

SPIS Image Manipulation Suite   September 2014

- Developed a photo editing program using the Python Imaging Library
- Implemented photo manipulation tools such as image color filtering, image resizing, and various special effects

codypham.com   Present

- Actively developing a personal website in HTML and CSS, an ongoing project

Volunteering:

UC San Diego Health System   June 2012 – October 2013

- Assisted nurses and medical staff in intensive care units and administrative tasks
- Responsible for handling and transport of patient samples in laboratories