

Carlos Aguilera

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Education

University of San Francisco (USF)

Expected Graduation Date: **May 2017**

B.S. Degree: Computer Science

GPA: 3.69

Technical Skills

- **Programming Languages:** Python (Proficient), Java (Intermediate), C (Intermediate), JavaScript (Proficient), C++(Proficient)
- **Website/Design:** HTML/CSS
- **Terminal/Command Prompt:** Unix (Proficient) and Windows (Proficient)
- **Query Language:** SQL

Relevant Courses

Operating Systems

Fall 2015

- Analyzing the design and implementation of operating systems.
- Formed programs with threads, synchronization, scheduling, and interprocess communication.

Data Structures and Algorithms

Spring 2015

- Programmed data structures to collect information efficiently.
- Implemented complex algorithms in four separate projects.

Software Development

Spring 2015

- Conducted professional management of extensive lines of code.
- Designed and built back end of a search engine through several projects.

Parallel Computing

Fall 2014

- Programmed parallel programs using Message Passing Interface (MPI) and threads.
- Operated with Distributed and Shared Memory Computer Systems.

Notable Academic Projects

Back-End of Search Engine

- Developed an inverted index for fast search through html/text files.
- Improved program by parallelizing search algorithm.
- Molded a web crawler to grab html pages and index them.

Systems

- Programmed a shell on the Raspberry Pi.

Java REPL

- Developed a Java REPL, an interactive “shell” tool that mimics the behavior of the python interpreter shell.

C Declaration to English Translation

- A small translator that recognizes a subset of C declarations and prints out the equivalent English Meaning.

Personal Projects

AirHockey

- Implemented a simple air hockey game using javascript

Website

- Designed and implemented my own website in html and css.

Work Experience

USF Computer Science Department, San Francisco, CA

Computer Science Tutor

August 2015 - Present

Teaching Assistant (Introduction to Computer Science I and II)

August 2014 - May 2015