

Alexander Barcenas

akbarcen@ucsd.edu · (925)-759-0679

Website: akbarcenas.github.io

LinkedIn: [linkedin.com/in/akbarcenas](https://www.linkedin.com/in/akbarcenas)

GitHub: github.com/AKBarcenas

Education

B.S., Computer Science, UC San Diego

Graduation Date: June 2018

GPA: 3.74

Skills

Computer Languages: C++ (Proficient), Swift (Proficient), Java, C

Tools: Git, Vim, Xcode, GDB

Experience

iOS App Development

(7/2016 - present)

- Developed and released two game guide apps that are used daily and have been installed 700 times.
- Utilized table and collection views in order to present information and tools for the games.
- Implemented artificial intelligence using alpha-beta pruning for a tic tac toe and ultimate tic tac toe app.
- Working with Google's AdMob platform to monetize apps by using banner and interstitial ads.

Computer Science and Engineering Tutor

(9/2016 - present)

- Mentoring students on the basics of object oriented design, data structures, and software engineering.
- Assisting students with the process of diagnosing compilation and runtime errors in C++, C and Java.
- Helping students decompose program specifications and follow style requirements.
- Providing guidance to students during labs that teach them new concepts and technologies.

Cube Satellite (SEDS, UCSD) - Software Engineer

(10/2015 - 10/2016)

- Developed software in C++ that will operate a cube satellite for NASA's CubeQuest Challenge.
- Won third place in NASA's Ground Tournament-2 beating other universities and companies.
- Collaborated with other subteams in order to ensure that the software met all of their needs.
- Researched and learned from academic papers about software utilized by other cube satellites.
- Designed the cube satellite's software structure and constructed a UML class diagram for the design.
- Wrote and revised cube satellite software documentation used in submissions sent to NASA.

Verimark - Project Manager

(3/2016 - 6/2016)

- Oversaw nine other students during the development of an document e-signing application.
- Upheld project deadlines resulting in the second highest project score out of 20 student teams.
- Conducted code reviews and testing which led to successful implementation of basic app functionality.

Relevant Coursework (Planned completion by Summer 2017)

Completed:

- Advanced Data Structures (CSE 100)
- Software Engineering (CSE 110)
- Design and Analysis of Algorithms (CSE 101)
- Human-Computer Interaction Design (CSE 170)
- Computer Operating Systems (CSE 120)

Ongoing:

- Computer Networks (CSE 123)

Planned:

- HCI Programming Studio (COGS 121)
- Introduction to Computer Security (CSE 127)
- Programming Languages (CSE 130)