

Amy Wong

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Education University of California, Berkeley
Bachelor of Arts, Computer Science 2016

Relevant Coursework Algorithms, Data Structures, Artificial Intelligence, Database Systems, Networking, User Interface Design, iOS Development, Software Engineering, Advanced Digital Animation

Experience **Elwyn & Jennifer Berlekamp Foundation** – Assistant June 2014 – Aug 2014, Nov 2016 – Present

- Applying mathematics and theories to combinatorial games, created and restructured content aimed at explaining rudiments of combinatorial game theory
- Produce graphics using Photoshop and Illustrator
- Revamp website

Griddle, CITRIS Social Apps Lab Project – 3D Generalist & Programming Assistant June 2015 – August 2015

- Participated in the building of an educational video game aimed towards high school students.
- Implemented new shaders, wrote script in C#, and created smokestack animation for towers.

Computer Science 61A – Lab Assistant Aug 2013 – Aug 2014

- Taught students concepts such as data abstraction, recursion, object-oriented programming, and orders of growth

Projects **Curiosity** – iOS, Swift

- Users can find and select attractions in a city based on distance, and map out their travel plan
- Used the Expedia API

Emergency Response – Android, Java, interface design, front-end development

- A travel safety app geared towards those traveling with life threatening allergies, this app assists users with communication, risk prevention, and crisis handling

Pacman with Bayes Nets – Python

- Implemented inference algorithms for Bayes Nets, specifically variable elimination and likelihood weighting sampling. These inference algorithms help Pacman determine how to beat the ghosts

Firewall – Python

- Implemented a firewall that filters out packets based on protocol/IP/port/DNS query

Network AI – Java

- An implementation of game tree search with alpha-beta pruning for the game Network, which plays against a human player or another computer program

Activities **Webmaster and Historian Officer** – Cal Opportunity Scholars Association Aug 2014 – May 2015

- Website maintenance

CS Illustrated – UC Berkeley Jan 2013 – May 2014

- Illustrated computer science topics to assist students in fundamental concepts of programming

Skills

Languages: Python, Java, SQL, Ruby on Rails, Swift, C, C#

Web: HTML, CSS, JavaScript

Graphic: Adobe Photoshop, Adobe Illustrator