

Amy Cu

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UNIVERSITY OF CALIFORNIA, DAVIS

Computer Science Major. B.S. | *expected December 2020* | **GPA 3.73**

Dean's Honors List, College of Letters and Science | Winter '18 | Fall '18

RELEVANT COURSEWORK

- Data Structures
- Machine Dependent Programming
- Algorithm Design
- Computer Architecture

- Theory of Computation
- Programming Languages
- Graphic Design & Computer Technology

SKILLS

Programming Languages:

- Java, C++, C, C#, Python, Go, Lisp, Prolog, HTML, CSS

Operating Systems & Graphics:

- Unix, Adobe Illustrator, Adobe Photoshop

WORK & LEADERSHIP EXPERIENCE

Programming Languages & Software Engineering Research

Davis, CA | August 2019 - present

Undergraduate Research Student

- ➔ Research with team under Dr. Cindy Rubio Gonzalez for BugSwarm project to examine debugging and bug-searching efficiency and accuracy at the UC Davis College of Engineering
- ➔ Study and collect information from dataset of fail-pass pairs to develop test code for bug-searching

iD Tech Summer Camps

Livermore, CA | July 2019 - August 2019

2019 Summer Instructor

- ➔ Taught Java coding courses for class sizes of up to 10 high-school students. Covered Java coding fundamentals, Data Structures & Algorithms, and Game Development using Java and Processing (*Code Apps with Java, Java Coding and Game Development*)
- ➔ Taught Scratch coding and programming with Sphero BOLT Robots for elementary-school students (*Code-a-Bot: AI and Robotics with Sphero BOLT*)

UC Davis Computer Science Tutoring

Davis, CA | April 2018 - present

Computer Science Tutor

- ➔ Tutor for lower-division computer science courses. Help further students' understandings of key concepts and applications of topics in programming assignments
- ➔ Host Review Sessions to help students review concepts and prepare for midterms / exams

SELECTED PROJECTS

BugSwarm (Research Project)

- ➔ Examined debugging and bug searching efficiency and accuracy through mining and continuously growing a dataset of reproducible failures and fixes of fail-pass pairs

Game Design (Independent Projects)

- ➔ Designed and developed interactive Java Applet games using Java and Processing
 - ◆ **Fruit Field:** single-player token-collecting game spanning multiple levels where player avoids computer generated enemy AI and earns points for collecting tokens
 - ◆ **Dots:** interactive 2-player game with the objective of connecting the dots to make "boxes"

Personal Website (Independent Project)

- ➔ Designed and coded a personal website to feature projects and resume. Using HTML and CSS, is currently hosted on GitHub site