Amanda **Quach**

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Education

University of California San Diego *La Jolla, CA*

B.S. Computer Science *Graduating June 2022*

- Relevant Coursework: Objected-Oriented Programming, Advanced Data Structures, Discrete Mathematics, Design and Analysis of Algorithms, Software Engineering, Interaction Design, Teaching Computational Thinking

Skills

Languages Java, C/C++, Python, HTML, CSS, Javascript

Tools Vim, Git, GNU Project Debugger (GDB)

Experience

Jacobs School of Engineering CSE Department *La Jolla, CA*

Computer Science Tutor *January 2021 - PRESENT*

- Tutored Introduction to Computer Science Course in Python (CSE 8A) with over 300 students under Professor Joe Politz.
- Guided students through the debugging process to help improve their understanding of programming concepts and coding skills .
- Led lab sections and held 1-1 meetings to to provide extra support for students who are having trouble grasping certain topics .

IDEA Engineering Student Center *La Jolla, CA*

Transfer Prep Leader *June 2021 - Present*

- Responsible for mentoring and being a resource to incoming students enrolled under the Jacobs School of Engineering.
- Lead meetings and conversations about UCSD, student life, and academics.
- Plan events that will help prepare the students transition from community college to a four-year university.

Academic Projects

ChimPlanzee Digital BuJo

Academic Project

- Implemented an interactive and intuitive bullet journal in a team of 9 utilizing modern software engineering practices (Agile development, CI/CD, quality-focused code).
- Designed and wire framed the product using user persona/ stories prioritizing a user-centered design to meet user needs.
- Continuously communicated with the team using the Scrum framework (Sprint Planning, Daily Stand-up, Sprint Review, Sprint Retrospective) to keep front and back-end team on the same page.

CS Education - Teaching Computational Thinking

Academic Project

- Researched the state of computer science programs for K-12 grade students and analyzed the current computer science standards set by the Computer Science Teachers Association (CSTA) worldwide.
- Studied the stages of computational thinking and the learning tools that embed these stages (e.g. Hour of Code) with the goal of improving technology used in education.
- Constructed a website composed of videos utilizing Snap! teaching the basic concepts of programming.

Organizations

Chinese American Student Association *UCSD*

Membership Outreach Chair *Sep. 2019 - PRESENT*

- Serve as a bridge between board and general members and encourage involvement.
- Increased general membership participation by 30% by collaborating with other board members to create a welcoming experience.
- Consistently follow up with every prospect and general members to continuously improve the organization.

CS foreach *UCSD*

Curriculum Committee *May 2021 - PRESENT*

- Host workshops (Intro to Python, AP CS A/P review) to prepare high school students for their exam.
- Design workshops that will allow students to retain over 70% of the information being presented.
- Develop a study package extending beyond lectures that can be offered to high schools students.