

# BREEZE ANNE AGUILAR

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## EDUCATION

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College of the Canyons

Expected Graduation June 2025

*Associate of Science in Computer Science*

*Relevant coursework:* Advanced Data Structures and Program Design, Discrete Structures, Computer Organization, Statistics, Computer Architecture and Assembly Language, C Programming, Network Technology

## WORK EXPERIENCE

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**Software Engineering Lead, COC NASA HASP Team, Valencia, CA**

**September 2024-Present**

- Develop software and provide a framework for completion of each project in order to support the mission's needs.
- Communicate closely with advisors, project managers, leads and general team members to meet strict deadlines and ensure quality of the work produced.

**Computer Science Instructor, Code Ninjas, Valencia, CA**

**July 2022-Present**

- Facilitate coding sessions for students aged 4-17, teaching programming fundamentals and problem solving skills in languages such as JavaScript, Python and C#.
- Mentor students in their own coding projects, providing personalized guidance to enhance their learning experience.

**Cybersecurity Intern, College of the Canyons, Valencia, CA**

**September 2024-November 2024**

- Proposed a comprehensive cybersecurity program compliant with the Gramm-Leach-Bliley Act (GLBA) Safeguard Rules.
- Researched risks posed to schools and financial institutions with an emphasis on current cyber trends to better understand potential threats.

**Software Engineer Intern, informUS, Valencia, CA**

**June 2023-August 2023**

- Parsed federal and congressional data into databases using Python and MySQL, implementing real time updates and certifying the accuracy and integrity of the information stored.
- Designed and implemented backend services to support the website's functionalities.

## PROJECTS

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**SpectraSolis, C and Python, Raspberry Pi and Parallax Propeller, Computer Vision**

- Currently designing software for a payload aboard a NASA weather balloon to collect and analyze spectral and coronal data from the upper stratosphere.
- Utilizing Computer Vision to develop Python algorithms to precisely track the sun.

## TECHNICAL SKILLS

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- *Programming Languages:* Python, Java, C/C++, JavaScript
- *Tools and Libraries:* Git, Computer Vision, NumPy, Matplotlib, Qiskit, Beautiful Soup
- *Skills:* Database Management, Data Parsing, Web Scraping, Algorithm Analysis, Statistical Analysis

## SOFT SKILLS

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- *Communication:* Effectively communicate complex ideas to non-technical audiences.
- *Problem solving:* Strong aptitude for identifying and resolving issues efficiently.
- *Adaptability:* Quick learner and ability to adapt to new technologies and challenges.
- *Attention to Detail:* Precision and accuracy in data analysis and programming.
- *Interpersonal Skills:* Collaborate constructively with cross-functioning teams, fostering a positive and productive environment.

## EXTRACURRICULAR ACTIVITIES & AWARDS

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- **Astronomy and Physics Club:** Regularly attend club meetings and excursions, recruit members, attend and hold workshops on STEM and professionalism, support peers in their professional STEM development.
- **1st Place Project in the 2023 Valencia STEM Conference:** Built a quantum circuit model using Python and IBM Qiskit and educated peers, educators and industry professionals alike on quantum computing.
- **NASA Community College Aerospace Scholar:** Engaged in Mission 1: Discover, where chosen participants complete an online course about NASA and its past, present and future missions. Final grade: 100%. Received an invitation back for Mission 2: Explore.