# WYATT AVILLA

## **EDUCATION**

University of California, Santa Cruz

September 2021 - Present

Major: B.S. Cognitive Science, specializing in AI & HCI

CGPA: 3.9

Minor: Computer Science

## TECHNICAL STRENGTHS

Programming Languages Software & Tools C/C++, Python (Pandas, NumPy), Rust, Bash, Lua

Git, Linux, GitHub Actions, CI/CD, WebAssembly, Docker, AWS

#### WORK EXPERIENCE

## Data Structures & Algorithms Tutor

July 2024 - September 2024

University of California, Santa Cruz

- · Assisted students in understanding core concepts of data structures and algorithms.
- · Led and conducted group sessions to facilitate collaborative learning and peer discussions.
- · Developed supplemental materials to enhance students' learning experiences.
- · Helped students prepare for exams by reviewing key topics and solving practice problems.

#### RELEVANT COURSES

# **Core Courses**

Data Structures & Algorithms Object Oriented Programming Parallel Programming Computer Systems

## Other Courses

Discrete Mathematics Linear Algebra Vector Calculus

## **PROJECTS**

# PowerPC Assembly Reverse Engineering &

March 2024

Contributed to an open-source reverse engineering project for Super Smash Bros. Melee on the Nintendo GameCube. Focused on analyzing PowerPC assembly code and translating it into C. Actively collaborated with a team of developers to improve accuracy and functionality, contributing to a collective effort to document and recover the game's codebase.

## Rust-Based Website

June 2024

Developed a fully Rust-based website leveraging WebAssembly and Trunk for building, hosted on shuttle.rs. Utilized Rust's procedural macros to dynamically generate HTML and CSS, ensuring a strongly-typed, efficient development process without relying on traditional frontend languages.

Discord Bot 🗹 March 2023

Developed a Discord bot utilizing the TikTok text-to-speech API to enable real-time text-to-speech requests within voice channels. The bot allows users to submit text messages which are then converted to speech and played back live during voice calls.