# Jack Muir

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## Education

**University of California San Diego**                                          2022- 2024
B. S. Mathematics/Computer Science - **GPA:** 4.0
**Moorpark College**                                                            2020-2022
A.S. Mathematics - **GPA**: 4.0
**Coursework:** Data Structures, Algorithms, Computer Architecture, Project Management, Systems Programming, Software Tools, Fundamentals of Python, Java, and C++, Python

## Work Experience

**Moorpark College Computer Science Department**                  August 2021 - May 2022
Mentor
- Mentored high school and collegiate students in **JavaScript**, **C++**, **HTML** web design, **Java**, and Object-Oriented methodologies in a project-based environment
- Collaborated with other mentors to present **Git** and software tools workshops

**Walt Disney World**                                          January 2022 - June 2022
College Program Intern
- Managed T-Shirt printing processes at ESPN World of Sports event housing over **10,000 guests** while adapting quickly to lead and improve the performance of over 10 different operations
- Awarded Mousters of Leadership certification for demonstrating intelligent decision-making in multi-level management simulations for theme park operations
- One of 100 selected for Tech Behind the Dreams- Walt Disney Imagineering program to shadow and learn from industry leaders in attraction development, specialized in attraction control software and animatronic robotics programming

**Santa Barbara Zoo**                                          June 2021 - January 2022
Attraction Engineer
- Communicated zoo information for up to **70 guests** through a 20-minute presentation while driving a 1/4 scale train engine, ensuring guest safety and maintaining ride system at ticketing/seating positions
- One of 3 staff experienced in leading safety critical derailment strategies such as escorting guests safely through clear communication and mechanically analyzing train/tracks for reimplementation
- Gathered and displayed data on guest flow to create an analytic interface using **Java**, improving ride processes and breaking the yearly attraction revenue record of **$1.1 million**

## Projects

**QrkBoard Social Media**                                                       Fall 2022
- Developed a Full-Stack web application using **Node.js** for users to upload and see posts designated to unique physical locations on campus using **QR Codes**
- Built frontend with UI using **Javascript** and **HTML**, managed **API** communication with database using **MongoDB**

**Star Wars: VR X Wing Pilot**                                                  Summer 2022
- Produced a **Virtual Reality** space flight simulator based on Star Wars movies compatible with **Oculus** and **Unreal OpenXR** frameworks
- Engineered responsive joystick controls using **Unity XR** and **C#**

## Activities and Leadership

**Game Jam Programmer- Itch.io**                                    Summer 2021 - Present
- Competed in time-sensitive game-making competitions using **Unity** and **C#** in 2D, 3D, and VR environments, both individually and in a team of 3

**Vice President- Moorpark College Honors Club**                    Fall 2021 - Summer 2022
- Led monthly board meetings of over **250 members**, organizing events with resources for success before transfer and networking for employment

## Skills

**Languages:** Java, C#, C++, JavaScript, HTML, Python, C
**Tools/Frameworks:** Unity Game Engine, Node.js, Selenium, Arduino, Adobe Premiere Pro/Photoshop