Dennis O'Connell

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EDUCATION

Santa Clara University .... **Graduation: 2022**
BS, Mathematics .... *Santa Clara, CA*
- Math and Computer Science Society Member
- West Side Swing Dance Club

Relevant Coursework

- Continuous Mathematical Models
- Discrete Mathematics
- Object Oriented Programming
- Calculus and Analytic Geometry
- Series and Differential Equations
- Probability and Statistics

EXPERIENCE

Department Coordinator | Health and Disabilities Department .... **May 2020 – Present**
Santa Clara Community Action Program, Santa Clara University .... *Santa Clara, CA*
- Manage five volunteer programs concerning issues of Health & Disabilities in the Santa Clara community
- Conduct a virtual blood drive in partnership with the Red Cross to accomodate for COVID-19
- Support program coordinators in facilitating their respective programs and recruiting volunteers

Leadership Council President .... **Sep. 2019 – Mar. 2020**
Communitas Residential Learning Community, Santa Clara University .... *Santa Clara, CA*
- Lead 10 council members in organizing over 20 social and educational events for 200+ residents
- Worked cooperatively with presidents of other residence halls in execution of campus wide events such as a haunted house and music concert
- Created and distributed advertisements for regular programming using Canva software

Behavior Technician .... **June 2020 – Sep 2020**
Autism Learning Partners .... *San Jose, CA*
- Provide Applied Behavior Analysis (ABA) Therapy to a range of children on the Autism Spectrum Disorder.
- Increase functional behavior, provide functional communication training and/or teach self-help to achieve client's personal goals.

TECHNICAL PROJECTS

Euler Approximation Project .... **March 2020**
D3.js, MathJax, Javascript, Bootstrap .... *Live Link | Github*
- Differential Equations project where values of y are approximated for a given differential equation at different values of h using the Euler Approximation method.

Pong Game .... **Summer 2019**
Java Applet .... *Github*
- Applied concepts of object oriented programming to create visualization of pong balls with physics and a functional pong game in the java applet

Santa Clara Jukebox .... **March 2019**
Wordpress, Javascript .... *Github*
- As a team of 5, created a music player website with custom javascript tools that allowed users to control music in multiple listening rooms. Submitted in the Hack For Humanity 2019 hackathon.

SKILLS & INTERESTS

- **Programming Languages:** Javascript, HTML, CSS, Java, C++
- **Tools, Libraries & Frameworks:** Vue.js, Express, Bootstrap, D3.js, p5.js, NPM, Git, MathJax, Arduino
- **Interests:** Fractals (Sierpinski Triangle, Mandelbrot Set, Julia Set), Data Visualization, Cellular Automata