Cooper Murr

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EDUCATION

Cornell University   **Ithaca, NY**
Bachelor of Arts - Computer Science   *Spring 2024*
- GPA: 3.731
- Related Coursework: CS 2112 Honors Object-Oriented Design and Data Structures, CS 2800 Discrete Structures, CS 3410 Computer System Organization, CS 3152 Intro Game Architecture, MATH 4710 Basic Probability
- Related Projects
    - Grow Crazy! Commercial Computer Game Title
        - Developed a Java based title that contains full co-op support, over 20 levels, and a unique gameplay experience against an AI controlled plant. Presented at end-of-year game exposition to 500 attendees.
    - Critter World Simulation
        - Mockup of UI here, https://tinyurl.com/CritterGUIMockup. Software simulates "critters" in a user or randomly generated world through supported actions: breeding, attacking, eating, dying, moving, and custom critter reactions.

WORK EXPERIENCE

Future Automation Research Laboratory   **New York, NY**
Research Intern   *May 2022-Present*
- Prototyped audio machine learning & robotics interface for the development of contextualized learning systems.
- Researched and built pipeline of using a machine learning integrated pen plotter to programmatically shade user pen sketches.
- Conducted user case studies for the Cross Cultural Driving Project utilizing virtual reality to collect data on various driving scenarios.

Nutrition by Corvis   **San Juan Capistrano, CA**
Intern Site Manager   *December 2019*
- Initialized a basic login system, working with the company head, with default front end design and SQL back end for storing user data.

CS 1110 Course Staff   **Ithaca, NY**
Consultant   *August 2021-May 2022*
- Led a section of weekly consulting hours for CS 1110 assignment questions.
- Ensured students in lab section understood the week's relevant python concepts.

ACTIVITIES & LEADERSHIP EXPERIENCE

Cornell University Sustainable Design (ICN 2030 Modeling)   **Ithaca, NY**
Electrification Team Lead   *2021-Present*
- Driven project team dedicated to mitigating carbon emissions in Ithaca, NY.
- Researched and analyzed residential features utilizing Rhino for modeling and TensorFlow for machine learning model construction to determine optimal retrofittings to cost effectively reduce impact on the environment.
- Designed and launched ICN 2030 modeling React site for residential distribution of model's algorithm functionality.

Strength Over Silence   **CA**
Co-Founder   *2017-Present*
- Co-Founded a mental health and suicide awareness organization for youth.
    - Established an annual 4-hour walk raising $4.6k, petitioned the District for policy change, educated Southern California schools on mental health warning signs.

SKILLS & INTERESTS

Skills: Java, Typescript, React, Python, Object-Oriented Design, Data Structures, Algorithm Analysis, C++

Interests: Cornell Overwatch Varsity Esports, Whistling Shrimp Improv Comedy