

Miles Samaniego

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EDUCATION

The University of Michigan, School of Literature, Science, and the Arts, Ann Arbor, MI

May 2026

Bachelor of Science

GPA 3.58 / 4.00

Majors: Computer Science

Course Highlights: *Data Structures and Algorithms, Introduction to Computer Organization, Programming and Data Structures, Discrete Math, Elementary Programming Concepts*

PROJECT MANAGEMENT AND LEADERSHIP EXPERIENCE

Michigan Build and Launch Club at The University of Michigan, Ann Arbor, MI *January 2024 – Present*

Project Manager, Club Management Application Startup (December 2023)

- Orchestrated project timelines, delegated tasks, and ensured seamless collaboration among team members
- Currently learning Firebase SQL, Flask, and Swift through hands-on experience

TECHNICAL EXPERIENCE

Data Structures and Algorithm Course at The University of Michigan, Ann Arbor, MI *August 2023 – December 2023*

Zookeeper Project (December 2023)

- Applied Prim's algorithm to find optimal Minimum Spanning Trees in the required time complexity
- Programmed a Branch and Bound algorithm to find the optimal solution to the Traveling Salesperson Problem (TSP)
- Explored random insertion heuristics to implement an efficient and nearly optimal TSP solution
- Improved efficiency by utilizing my knowledge of time complexities in conjunction with the Perf profiling performance analysis tools

Priority Queue Project (October 2023)

- Implemented a sorted, binary, and pairing heap-based priority queue
- Applied VS Code debugger skills to resolve memory, runtime, and correctness issues

Python and AI via BlendEd Consortium, San Francisco, CA

August 2021 – December 2021

Image Sorting Machine Learning Projects

- Adapted a TensorFlow VGG16 neural networking model to create a machine-learning program that could sort animals by species and sort landscapes by weather
- Harnessed external image databases to train machine learning models

WORK EXPERIENCE

Marin Country Day School, Corte Madera, CA

June 2023 – August 2023

Technology Analyst

- Oversaw organization's technology systems and devices to ensure students and faculty can maximize their learning in the upcoming school year
- Managed over 600 student, teacher, and administrator accounts using Google Admin

Marin Academy, San Rafael, CA

June 2021 – August 2022

Summer Tech Leader

- Utilized the basics of HTML, CSS, and JavaScript to begin building a website for our campus billboards
- Reconfigured over a dozen access points and landline telephones using command line and LAN servers
- Supervised younger students through an array of tasks assigned to us by our Technology department teachers
- Collaborated with like-minded students to execute tasks, find new issues in our systems, and fix those issues

SKILLS & INTERESTS

C++ | Python | Java | Music Production | Video Editing | Pokémon