
Education

2021-2025

Pomona College

BA Computer Science, Minor in Music GPA: 3.9/4.0

Honors: Pomona College Scholar (Spring '22) Top 25% of Class of 2025

Involvements: Member of PAI (Pomona Artificial Intelligence Club), Physics TA, Computer Science Mentor, Member of Pomona College Orchestra

Relevant Coursework: Machine Learning, Data Structures, Functional Programming, Intro Python, Discrete Math, Linear Algebra, Calculus I, II, Physics: Robotics With a Purpose

Experience

May 2023-Present

Anthony J Clark PhD in Computer Science and Engineering *Research Assistant*

Claremont, CA

- Working to develop an autonomous robot capable of navigating challenging terrains.
- Training Convolutional Neural Networks on datasets collected within Unreal Engine 5.
- [Abstract: https://github.com/daisy-abbott/ARCSLab-reports/blob/master/Abstract.pdf](https://github.com/daisy-abbott/ARCSLab-reports/blob/master/Abstract.pdf)

May 2023-Aug 2023

Stonewall Analytics *Data Engineer*

Remote | CA

- Designed efficient database schemas, optimized data processing pipelines, and established seamless connectivity with Snowflake Data Warehouse.
- Streamlined data ingestion, transformation, and analysis processes.
- Proficient in advanced SQL querying techniques for efficient data integration and analysis within Databricks.

Aug 2022-Dec 2022

Physics Department Pomona College *Teaching Assistant*

Claremont, CA

- Helped students solve technical problems, explained lab procedures, helped troubleshoot and problem-solve uncertainties in data

Aug 2021-Dec 2021

Physics: Robotics With a Purpose *Computer Science Mentor*

Claremont, CA

- Taught the *Femineers* at a local high school the basics of Python & helped them program drones

May 2021-Aug 2021

Gold Ridge Resource Conservation District *California Climate Action Corps Fellow*

Sebastopol, CA

- Wrote an [article](#) on the effects of drought on wildfire, measured pH of streams to improve wildlife conditions and met with committee members to discuss rainwater catchment systems
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Projects: See my portfolio of projects here: <https://daisy-abbott.github.io/Projects.html>

- Decision Tree Learning Algorithm Top Down Implementation
 - Dynamic simulation environments for autonomous navigation
 - Hexapon game implementation with both human and computer players
 - Shortest distance or fastest route between two points calculation using dijkstra's algorithm
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Personal

- **Skills:** Machine Learning Models, Python, Java, Neural Nets, Random Forests, SQL Querying, Pandas, HTML & CSS, LaTeX, GitHub, Blender, Excel
- **Hobbies:** Surfing, playing violin, and board games.