

Aot Chanthorn

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EDUCATION

University of California, Berkeley | Applied Mathematics

Expected Graduation 2025

Relevant Skills: (proficient): Python, C++ (familiar): Java, R, HTML, CSS, JavaScript, SQL

EXPERIENCE

Mathnasium

La Canada Flintridge, CA

Math Instructor

June 2022 – July 2023

- Collaborated with parents to determine student needs, documented student progress to streamlined learning
- Provided feedback to students using positive reinforcement techniques to encourage and build confidence
- Student outcome in the classroom resulted in a **positive** grade shift of **20-60%**

Sano Health

Los Angeles, CA

ACP distributor/representative

July 2022 – May 2023

- Distributed discount or free internet service devices to qualified individuals
- Streamlined process resulting in a **50% increase** in processing speed
- Communicated with ACP office to fast-track individual applications

PROJECTS

Voltorb Flip Machine Learning Solver | *Personal (C++, SFML)*

- Recreated Pokémon minigame 'voltorb flip' as well as ai player with **96% win-rate** on select levels by gradient descent algorithm

Evolution NEAT simulator | *Personal (C++, Python, SFML)*

- Modeling microorganism and evolution through use of genetic machine learning algorithm (NEAT)
- Collects data for each generation and packages into CSV formats for analysis and report

Ai Speech Trainer | *Hackathon (Python, Whisper, OpenAi)*

- Program evaluates transcribed speech on a set of criteria similar to Grammarly but for speech
- Built onto of openai GPT-4 model and whisper API with a **team of two**

Image Path Creator | *Personal (C++, OpenCV)*

- Software that identifies paths within an image and then seeks shortest paths using edge detection
- utilized OpenCV pre-processing modules to prep images for improved accuracy edge detection
- collaborated with a **team of four** utilizing version control practices

Movie Ranking Website | *Personal (HTML, CSS, JS)*

- Personal movie recommender and catalogue pulling data from IMDb.com API

Graphing Calculator | *Academic (C++, SFML)*

- Graphic calculator with similar functionalities to Desmos with a user-friendly interface