

AMANDA PIYAPANEE

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Education

California Institute of Technology (Caltech)

3.90/4.00 GPA

Bachelor's of Computer Science, Information & Data Science Minor

2019 - 2023

Relevant Coursework: Machine Learning (**Python**), Algorithms, Software Design (**C**), Multivariable Calculus, Linear Algebra

Work Experience & Projects

Data Science Neuroscience Research Fellow

June - August 2020

Caltech Division of Biological Engineering, Wagenaar Lab

- Contributed to an open-source database of leech synaptic data and a computational model of its nervous system
- Developed a machine learning model and cleaned data in **Python** and **SQLite**
- Self-studied statistics, machine learning, and neuroscience [GitHub](#)

Electronic Trading Competition, 4th Place

November 2019

Jane Street Los Angeles ETC

- Developed a linear regression perceptron in **Java** to maximize profits on a stock market (arbitrage strategy)

Pinball Project (Physics Engine)

March - June 2020

Team of 4

- Developed a physics engine using classical mechanics formulas in **C**
- Developed a pinball game using the physics engine [GitHub](#)

[4 More Experiences on LinkedIn](#)

Skills

Programming

Python, Java, Swift, C (Proficient) SQL, OCaml (Beginner)

Software Tools

Git, Jupyter Notebook, Linux, Mathematica, LaTeX

Foreign Languages

Chinese, Thai, Japanese (Intermediate)

Hobbies

Video Editing (Adobe Premiere Pro), Water Polo (NCAA DIII, Junior Olympics)

Leadership and Activities

ML Project (Caltech Robotics)

October 2020 - Current

Currently developing an underwater depth estimator using a generative adversarial network (GAN) in **Python**

President (Caltech Datamatch)

December 2020 - February 2021

Founded, promoted, and organized a virtual matchmaking platform for Caltech undergrads to meet other undergrads. Achieved participation rate of over 50% of all undergrads over as a result of social media marketing.

Hackathon Organizer (Hacktech 2020)

November - March 2020

Invited speaker Director of NASA JPL Larry James, reviewed 250+ applicants, and helped transition to virtual in a

Neuroscience Teacher Volunteer (MIT Educational Studies)

July - August 2020

Collaborated with a coteacher & improved presentation and communication skills to teach neuroscience to 170+ students for 6 weeks. Gave lectures, designed PowerPoints, and provided personalized feedback

Website Developer (Carroll Medical Academy, Volunteer of the Year 2019)

August - May 2019

Innovated UX design and improved webform efficiency for 350+ guests at the annual banquet