Allison Tee

(316) 730-3468 | ateecup@stanford.edu | linkedin.com/in/ateecup | github.com/WorldsEndDunce | allisonxtee.com

Education

Stanford University Stanford, CA

Major in Math and Music (BAS) and coterm MS in Computer Science; **3.94 GPA** *Sep 2021 – June 2025*

- **Coursework:** Deep Learning; Artificial Intelligence Principles, Operating Systems Principles, Probability for Computer Scientists, Mathematical Foundations of Computing, Programming Abstractions, Differential Equations, Linear Algebra and Matrix Theory, Multivariable Calculus, Groups and Rings.
- **Activities:** Piano, TreeHacks, Stanford University Mathematical Organization (SUMO), Stanford Summer Engineering Academy (SSEA), Association for Computing Machinery (ACM), CodePath, Stanford Taekwondo.

Experience

NASA May 2023 - Present

Incoming Software Engineer Intern *Hybrid*

- Incoming intern working on a machine learning project.

L'SPACE Project Manager and Researcher *Remote*

- Project manager of a student team designing a mission to explore the dwarf planet Ceres for the NASA L'SPACE MCA.
- Direct team research efforts while studying computational techniques for space exploration.

Blue Marble Space Institute of Science (BMSIS) June 2023 - Present

Research Associate *Remote*

- Researcher at BMSIS YSP developing a tool to analyze deep sequencing data with **Python** and **Bash**.

Stanford Brains in Silicon Lab March 2022 – March 2023

CS Research Intern *Stanford, CA*

- Worked in a team to use machine learning methods via **Python** libraries like PyTorch to analyze neural data.
- Primary developer for project where I ran **Python** and **Julia** simulations of neural networks and wrote an improved algorithm to find sequences (representing memories) in the brain.
- Presented my findings at the CURIS poster session, one of the largest undergraduate research events at Stanford.

Projects

ML Palm Reader | *Python, TensorFlow, Keras* April 2023 - June 2023

- Collaborated to build an RNN + Transformer model to classify over a dozen different hand gestures.
- Incorporated a hand landmarker in a dataset of 4000+ examples for real-time gesture detection and implemented various features to improve the model to reach 90% accuracy.

Annie's Kitchen Website | *HTML, CSS, Javascript* March 2023

- Developed a website for Annie's Kitchen, a business that specializes in Malaysian-Chinese dishes.

KittyChat | *HTML, CSS, Javascript, Flask, Python, Whisper API, OpenAI API* February 2023

- Led a team to develop and present an interactive website to make English conversation practice more accessible with ChatGPT-powered talking cats for Stanford Treehacks 2023.

Mario Kart Wii AI | *Python, TensorFlow* October 2022 – December 2022

- Collaborated with a classmate to train a convolutional neural network to drive around a racetrack in Mario Kart Wii on an emulator. Presented development and results in a paper and video.

Zoo of Distributions | *HTML, CSS, Javascript* April 2022 – June 2022

- Developed a generative art web application to teach probability distributions. This project won the Grand Prize for Stanford's CS109 Probability Challenge.

Honors and Awards

CURIS Fellow: One of 25 undergraduates awarded a fellowship for computer science research at Stanford.
Gates Scholar: One of 300 chosen out of 34,900 applicants across the country as a recipient of this last-dollar scholarship for underrepresented high school seniors.
National Merit Scholar: Selected based on my perfect PSAT score being within the top 1% of students nationwide and application as a winner of this scholarship.

Technical Skills

Languages: (Proficient) Python, Java (Familiar) C/C++, MATLAB, HTML/CSS, JavaScript, Julia
Developer Tools: Git, Visual Studio, PyCharm, Eclipse, LaTeX, Linux (Ubuntu), Qt Creator, Android Studio
Libraries: NumPy, Matplotlib, PyTorch, TensorFlow