

Jay Zheng 📍 Brooklyn, NY 👤 he/him

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Education

Cornell University

Exp: Winter 2026

- B.S. in Statistics (ML concentration)
- Minor in Computer Science
- GPA: 3.9

Cornell Tech

Exp: Summer 2025

- Machine Learning Certificate
- Grade: 99%

Experience

Corporal-Reservist @ U.S. Marine Corps

Jan 2022 – Present

- Coordinate training and readiness as a NCO while concurrently pursuing academic full time
- Developed strong leadership and time management skills transferable to project-driven tech environments

iOS Course Instructor (CS 1998) @ Cornell CIS

Fall 2025

- Former TA and course instructor for iOS Development course (CS 1998-601) with combined 100+ students
- Revamped course structure for make content more beginner friendly

iOS Developer @ Cornell AppDev

Feb 2025 – Present

- Architecting and building new app "Hustle" in Swift and TCA Architecture
- Implemented authentication using Firebase Auth and Google sign in
- Collobrate with backend devs and designers on "Score", an ESPN like app for Cornell Sports
- Designed and implemented UI components such as refresh control, loading cards, and filtering using SwiftUI.

Research Assistant @ Cornell ARL

Sep 2024 – Sep 2025

- Developed mirror control algorithm to maintain robot-user and user-user visibility
- Integrated alorithm to robot prototype using Arduino and ROS, debugged all integration failures
- Designed user studies and finite-state system to coordinate perception and actuation logic for autonomous robot behavior

Projects

ReadLay / iOS App

Fall 2024

- Front-end developer for full stack application for trading used books
- Most creative award in hackathon.

Rock-Paper-Scissor Predictor / Image winner prediction

Spring 2025

- Designed a Siamese Neural Network with ResNet, to classify winner in a rock paper scissor game, with less than 10% error rate.

Study Spot / Web App

Summer 2025

- Built a productivity hub combining Pomodoro timer, to-do list, and adaptive music player

GPT Inside-out / NLP Research Project

Fall 2023

- Learned the Transformer Architecture during this project
- Reconstructed and trained a simplified Transformer-based text generation model to study context window effects and sequence coherence.

Skills

- Python, PyTorch, Git, Version Control (branching, rebasing, etc.), Swift, iOS App Development, Java, C++

Coursework

- Machine Learning, Object Oriented Programming, Data Structure & Algorithms, Computer Systems & Architecture
- Differential Equations, Linear Algebra, Linear Models