

Jay Zheng

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EDUCATION

Cornell University

Ithaca, NY

Bachelor of Science in Statistics + Computer Science minor

Anticipated: Dec 2026

- **Relevant Coursework:** DSA, Computer Systems, Networks, Machine Learning, Stochastic Processes, Statistical Theory, Probability Modeling & Inference, Linear Models, Discrete Math

Certificate: Cornell Tech Machine Learning

Aug 2024

TECHNICAL SKILLS

Languages: Java, Swift, Python, C/C++, SQL, JavaScript, HTML/CSS, R

Frameworks: SwiftUI, TCA, UIKit, Firebase, pandas, NumPy, scikit-learn, Git, GitHub, VS Code.

Developer Tools: Git, Github, Jupyter lab/notebook, VS Code, IntelliJ

EXPERIENCE

iOS Software Developer

Jan 2025 - Present

Cornell App Development

- Leading the development of the Clocktower app to digitize the Cornell Chimes experience while overseeing the end-to-end software development life cycle.
- Resolved UI bugs in the Score app to enhance UX and leveraged The Composable Architecture (TCA) in the Hustle marketplace app to ensure modularity and scalability.
- Work with cross functional teams such as design and backend teams to integrate APIs and translate Figma designs into interactive User Interface.

iOS (CS 1998) Course Instructor

Fall 25 & Spring 26

Cornell University

- Leading instruction for accumulated 50+ students, managing 11 TAs, and constantly updating course to prioritize beginner friendly iOS development experience.
- Mentored students on version control (Git) and software development life cycle.

Corporal

Jan 2022 - Present

U.S Marine Corps Reserves

- Coordinate training as a Corporal in the U.S. Marine Corps Reserve while being a full-time college student.
- Maintain operational excellence and readiness; troubleshooting critical light armored vehicle maintenance issues in high-pressure environments.

Research assistant

Sep 2023 - Sep 2025

Architecture Robotics Lab

Cornell University 24-25

- Autonomous Systems: Developed control algorithms using Arduino and OpenCV, and agent coordination system.
- System Reliability: Debugged hardware-software pipelines, reduced communication failures to near 0% error rates.

PROJECTS

Rock-Paper-Scissor Predictor | *Python, Keras, NumPy*

Spring 2025

- Designed a Siamese Neural Network with ResNet, achieving 88% accuracy, outperforming logistic regression and random forest baselines
- Implemented data preprocessing, cross-validation, and error analysis to ensure model generalization.

ReadLay | *Swift, SwiftUI*

Fall 2024

- Developed book trading SwiftUI application, won the "Most Creative" award in the Hack Challenge.
- Collaborated with a backend engineer to integrate APIs and translated complex Figma designs into functional UI.

GPT Inside Out | *Python — TensorFlow*

Fall 2023

- Reconstructed transformer attention mechanisms to analyze token prediction dynamics and sequence coherence.

INTEREST

Archery, Marksmanship, Entrepreneurship, Product strategy, Robots, Sci-fi, Power Dynamics studies, Psychology