

Leon Jiao

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EDUCATION

Cornell University

Expected May 2027

Bachelor of Science in Computer Science

GPA: 4.15

- Courses: Machine Learning, Reinforcement Learning, Data Structures & Algorithms (Java), Discrete Math, Analysis of Algorithms, Natural Language Processing, Functional Programming (OCaml), Multivariable Calculus, Linear Algebra, Probability and Statistics, Computer System Organization, Systems Programming
- Activities: Data Science Project Team, Cornell Orchestras (Treasurer - managed \$15k budget), CS Course Staff

TECHNICAL SKILLS AND HONORS

Languages: Python, Java, OCaml, C, C++; JavaScript, HTML; SQL

Production Systems: React, Node.js, Flask, JUnit, REST APIs, ONNX, Git workflows, CI/CD pipelines

DevOps: Azure, VS Code, Jupyter Notebook, IntelliJ, Eclipse, Language Models

ML/Data Engineering: pandas, NumPy, Matplotlib, PyTorch, TensorFlow, LangChain, Scikit-learn, Tkinter

Honors: 4-Time AIME Qualifier (top 5% nationally), USA Computing Olympiad Silver Division

EXPERIENCE

Capital One

June 2025 – Aug. 2025

Software Engineer Intern

McLean, VA

- Accelerated data workflows by designing interactive AI agent with Llama models, reducing enterprise data configuration creation time from 4+ hours to less than 15 minutes for internal consumers
- Deployed agentic workflow through LangGraph implementation, supporting 4 major customer requested use cases
- Drove product requirements with product managers and 3 customer groups to iteratively improve chatbot design

rapStudy

July 2024 – Sep. 2024

Software Engineer Intern

Los Angeles, CA / Remote

- Spearheaded company's educational technology initiatives by developing generative ML pipeline
- Delivered sub-200ms API response times through Flask REST API and React frontend to deploy ML model
- Secured \$10000+ in seed funding by presenting technical demos to potential investors

Teaching Assistant at Cornell Bowers CIS

Jan. 2024 – Present

Machine Learning (current), Discrete Math (prior)

Ithaca, NY

- Guide 300+ students through mathematical proofs and ML concepts in 2 weekly office hours and on online forum
- Led weekly recitations for 20+ students, explaining solutions to challenging problems and facilitating discussion
- Developed a Kaggle competition with 150+ participants for students to implement image classification models

PROJECTS

BibleDelve iOS App | *Swift, Android Studio*

- Reached 3,000+ active users by collaborating with published author to convert HTML Bible dictionary into native mobile applications across iOS and Android platforms, serving unreached and underprivileged communities
- Achieved 5.0 Android Store rating through optimized user interface design, with pending App Store release

OCaml Election Outcome Simulator | *OCaml, Git*

- Simulated 50 state US presidential election scenarios with 80% accuracy with custom interactive engine
- Implemented a Naive Bayes probabilistic model to predict state election results given 32 years of voting data
- Engineered algorithm to generate voter preferences, randomly weighing political issues, modeling unpredictability

CaddieAI - Cornell Data Science | *Python, YOLOv9*

- Achieved real-time ball tracking at 30 FPS using YOLOv9 model to output ball positional metrics
- Developed predictive physics model calculating ball distance with 80% accuracy by analyzing velocity and spin rate

Face Recognition | *Python, TensorFlow, OpenCV, Tkinter*

- Built high-accuracy recognition system using Siamese Neural Network architecture trained on 1000 face pairs
- Optimized model performance through 5 iterations of testing and feature extraction improvements
- Created real-time app processing 15 FPS stream through Tkinter-OpenCV interface, demoing to 100+ people