

# CHRISTOPHER SIMS

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## EDUCATION

**University of Southern California**

**Los Angeles, CA**

GPA: 3.57/4.00

May 2026

Bachelor of Science in **Applied and Computational Mathematics**, Minor in Computer Science

**Honors:** Presidential Scholarship, National Merit Finalist, Dean's List (x3).

**Relevant Coursework:** Object-Oriented Programming, Linear Algebra and Differential Equations, Discrete Math, Multivariable Calculus, Full-Stack Web Development.

## EXPERIENCE

**Frenchy Digital**

**Los Angeles, CA**

*Technical Product Manager Intern*

*December 2024 – May 2024*

- Developed and designed three web apps in full-stack JavaScript utilizing React, PHP, and SQL, learning about full software development life cycle, unit testing, Git organization, and Jenkins task automation.
- Migrated website legacy systems to a cloud-based infrastructure, establishing robust CI/CD protocols with developers, resulting in a 35%-time reduction in application downtime.
- Completed 250+ ticket issues/bug fixes, successfully launching three new major product updates within six months, increasing user acquisition by ~165% for ClinicalEdify web app.

**HP Tech Ventures**

**Los Angeles, CA**

*Data Analyst Intern*

*February 2024 – April 2024*

- Researched and identified startups in “hybrid-working software” vertical to discover potential investments.
- Profiled and evaluating 8 startups with 38 investment metrics including models sourced from Crunchbase.
- Engineered data through cleaning (Excel), managing (SQL), analysis (Pandas), and visualization (Matplotlib).
- Awarded “Outstanding Distinction” by investment board for high-value analysis and recommendation.

**AutoDrive Lab**

**Los Angeles, CA**

*Machine Learning Researcher*

*May 2024 – Present*

- Contributing to research in reinforcement learning and transformer architecture for autonomous vehicles.
- Applying “foundational” robotics transformer to low-level robotic control in autonomous vehicle simulation.
- Developing convolutional neural network in Python, TensorFlow & Keras, Scikit-Learn for image recognition.

## PROJECTS/INVOLVEMENT

**Berkeley Algorithmic Trading Bootcamp**

- Participated in mock financial market trading simulation 4-day bootcamp led by trading professionals.
- Won electronic trading competition against 36 others by engineering a Discord trading bot in JavaScript with Atlas API to identify arbitrage opportunities in mock financial markets.

**Premier League Sports Betting Algorithm**

- Engineered a multi-layer perceptron to improve betting accuracy by over 8% through scanning five years of betting market data on ~2000 soccer games, analyzing for patterns of market inaccuracies.

**Traffic Sign Classifier** - Developed a convolutional neural network multi-class classification algorithm to identify traffic signs.

**Behavioral Driving Cloning** - Given nuScenes dataset, built a neural network to predict human driving behavior.

Completed **Machine Learning Specialization** from Stanford and DeepLearningAI

## SKILLS

C++ | Python | JavaScript | Keras & TensorFlow | SQL | MySQL | PHP | HTML/CSS | Bootstrap | React | Git | Pandas | Data Analysis | AJAX | REST APIs | Scikit-Learn | Machine Learning | Full-stack | Backend | Data Structures & Algorithms