

# Nicholas Ho

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## EDUCATION

**University of Southern California**  
*Master of Science in Applied Data Science*  
*Bachelor of Science, Quantitative Biology*

**Los Angeles, CA**  
August 2025–December 2026  
August 2021–May 2025

**Relevant Coursework:** Data Structures and Object-Oriented Design; Linear Algebra and Linear Differential Equations; Discrete Methods in Computer Science; Calculus II; Introduction to Artificial Intelligence

## TECHNICAL SKILLS

**Languages:** C++, Angular, C#, HTML, CSS, JavaScript, Python, SQL, R  
**Frameworks:** Springboot, Postman  
**Developer Tools:** Azure DevOps, Git, GitHub, Jira

## PROFESSIONAL EXPERIENCE

**H&R Block**  
*Embark IT Intern*

**Kansas City, MO**  
May 2024–August 2024

- Developed and deployed a digital consent collection tool using Azure DevOps, enhancing user experience for 1M+ users.
- Led sprint-based development using SDLC practices and daily stand-ups, ensuring timely delivery of features.
- Gained proficiency in unit testing and agile methodologies, strengthening backend reliability and team collaboration.

**Tripalink, Corp.**  
*Backend Engineer Intern*

**Los Angeles, CA**  
June 2023–August 2023

- Engineered custom GraphQL mutations that enhanced lease management system capabilities, improving performance by ~5%.
- Built and integrated a batch query system for lease contracts, increasing workflow efficiency by 10%.
- Resolved Jira tickets and co-authored DACI documentation during agile sprints with a 10+ member cross-functional team.

**USC Alzheimer’s Therapeutic Research Institute**  
*Data Analyst Intern*

**Los Angeles, CA**  
January 2022–August 2022

- Analyzed and structured data from monitoring reports using SQL and Excel, streamlining review processes.
- Visualized site visit trends through custom graphs and dashboards, driving a 10% improvement in monitor visit efficiency.

## LEADERSHIP AND INVOLVEMENT

**USC Taiwanese American Organization**  
*Vice President of Communications / Co-Director of Sponsorship*

**Los Angeles, CA**  
April 2023–May 2025

- Boosted club membership by 50% through targeted newsletters, social media strategy, and monthly engagement campaigns.
- Partnered with 5+ local businesses to secure member discounts, increasing attendance and fostering community ties.

## PROJECTS

**NBA Player Stat & Fantasy Ranking Prediction**

March 2025–Present

- Built a machine learning pipeline to predict NBA player stats using historical data, teammate context, and age-based features
- Engineered features and trained Random Forest models with  $R^2 > 0.99$  across 10 target stats using scikit-learn and pandas

**Two Player Games**

November 2024–Present

- Designed and developed a suite of interactive web-based games (a memory game, math game, and a wordle-inspired game)
- Implemented advanced features such as AI-driven opponents, scoring systems, and customizable game modes to enhance user engagement