

Kai Barker

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EDUCATION

University of California, Santa Barbara

B.S. in Statistics and Data Science

Expected Graduation: June 2026

Major GPA: 3.88 | Cumulative GPA: 3.79

Relevant Coursework

Machine Learning, Time Series, Differential Equations, Technology Management, Probability and Statistics, Proofs, Problem Solving with Computer Science, Stochastic Processes, Applied Stochastic Processes, Regression Analysis

WORK EXPERIENCE

Tillys (Management)

July 2024- Present

Assistant Store Manager

Santa Barbara, CA

- Generated over \$50,000 in personal sales through customer service skills and extensive product knowledge
- Managed the sales floor, monitoring employees and customers to meet sales goals and enhance store performance
- Assessed team strengths and areas for improvement to optimize efficiency and elevate customer experience

Blockchain and Property Rights Research

September 2024- Present

Research Assistant (UCSB)

Santa Barbara, CA

- Examined inequality in cryptocurrency markets while gaining a detailed understanding of blockchain technology
- Analyzed over 100 million Ethereum wallets using Python, handling large data sets to generate meaningful insights
- Developed and refined data analysis methods to enhance project outcomes and highlight wealth distribution trends

Ideathon 2.0 - Liner

November 2024- November 2024

Consultant

Santa Barbara, CA

- Diagnosed key pain points through targeted customer surveys and in-depth product analysis
- Proposed growth solutions that deliver a clear competitive edge, compiled into a data-backed pitch deck
- Created a roadmap and Go-to-Market strategy for implementing proposed features, ensuring seamless integration

PROJECTS & ACTIVITIES

Collegiate Activities

September 2022- Present

UCSB

Santa Barbara, CA

- Active member in intermural sports, Data Science Club, and Ski and Snow Club
- Pursuing certification in Technology Management

Personal Portfolio Website

June 2025-July 2025

Project

Santa Barbara, CA

- Designed and built a fully responsive portfolio using Next.js, Tailwind CSS, and Typescript
- Integrated scroll-based animations, optimized images, and deployed with Vercel
- Live demo (also linked in header): <https://kai-portfolio-website.vercel.app/>

Predicting NBA Stats with Machine Learning

July 2024- Present

Project

Santa Barbara, CA

- Implemented a machine learning model to predict NBA players rebounds for upcoming games
- Collected and processed real-time season data using NBA API to engineer features based on performance trends
- Trained and tuned a Random Forest Regressor model that achieved a 75% win rate vs. major sportsbooks (O/U)

SKILLS, INTERESTS & HONORS

Skills: Microsoft Excel, Microsoft Office Suite, CSS, HTML, R, SQL, Python, JavaScript, Java, C++, Time Management, Data Analysis, Communication, Public Speaking, Customer Service, Sales

Honors & Activities: HS Valedictorian, Seal of Biliteracy (Spanish), Dean's List for Academic Excellence

Interests: Basketball, Gym, Camping and Hiking, Rock Climbing, Running, Cooking