

Kyle Okura

Laguna Niguel, CA | (949)-616-5372 | kyle.okura@yahoo.com | [KyleOkura.GitHub.io](https://KyleOkura.github.io)

Profile: Rising senior majoring in Computer Science with strong interests in Data Science and Artificial Intelligence. Seeking an internship opportunity to apply technical skills in a real-world setting, collaborate with experienced professionals, and gain meaningful industry experience. Eager to contribute, learn, and grow within a forward-thinking team.

EDUCATION:

University of Colorado at Boulder

Expected May 2026

B.S. in Computer Science, Minor in Business

Boulder, CO

- **GPA 3.40** | Dean's list Fall 2023
- Chancellor's Achievement Scholarship
- Relevant Coursework:
 - Data Science with Probability and Statistics
 - Linear Algebra with CS Applications
 - Intro Artificial Intelligence
 - Database Systems

PROJECTS:

Examining Judicial Racial Bias (*Python*)

- Developed a machine learning neural network model to investigate potential racial bias in criminal sentencing data.

Positive EV Sports Betting (*Python, SQLite, HTML*)

- Created a data-driven sports betting strategy comparing local sportsbooks to sharp market odds.
- Conducted hypothesis tests and ROI analysis on bets to evaluate profitability.

Mancala Game Tree Solver (*Python*)

- Developed an AI agent using Minimax and Alpha-beta pruning algorithms to optimize Mancala gameplay.
- Implemented heuristic evaluations to improve decision-making depth and performance.

Predictive Modeling & Data Analysis (*Python*)

- Analyzed an extensive housing dataset to identify trends and distributions through exploratory data analysis.
- Enhanced data quality through cleaning and feature engineering.
- Built and evaluated a linear regression model for predictive tasks, assessed model performance through error analysis, and proposed accuracy improvements.

COMPUTING SKILLS:

Python

- Proficient working with neural networks, game tree algorithms, and linear regression models
- Packages: numpy, pandas, sklearn, matplotlib, seaborn

SQL

- Skilled at querying, manipulating, and managing structured data in relational databases
- Familiar with foundational concepts of Big Data and NoSQL systems

C/C++

- Knowledgeable in fundamental data structures such as linked lists, trees, and hash tables
- Experienced in dynamic programming, recursion, and algorithms for sorting, searching, and greedy approaches

WORK EXPERIENCE:

South County Tennis Shop

July 2021 to Present

Manager

Laguna Woods, CA

- Oversaw daily operations, maintaining inventory and professional customer service.
- Handled transactions, balanced the register, and prepared end-of-day financial reports.

INTERESTS:

- **Poker:** I enjoy analyzing poker strategy, including hand ranges, expected value, and exploitative vs GTO play styles
- **Snowboarding:** I love hitting the mountain and chasing fresh powder
- **Tennis:** I have played competitively since high school and enjoy the mental and physical challenge