

# Derek Chui

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## Summary

- Computer Science & Engineering student at Santa Clara University. Supporting coaching staff and athletic performance with data at **Santa Clara University Women's** and **Men's** Soccer as well as the **Oakland Roots**. Regularly using tools like **Hudl Wyscout**, **Catapult**, **VALD**, and more. Building [matchdays.app](#) to centralize and tie all these tools together, allowing me to regularly talk to and collaborate with professionals at teams in the **MLS**, **USL**, **EFL**, **NCAA Division I**, and [other football analytic tools](#). I also post data about **Wolves FC** on [Twitter \(X\)](#), using my existing workflows to do so, reaching 500k+ impressions.

## [Football Analytics Experience](#)

### [Undergraduate Assistant](#)

*Santa Clara University Broncos, Oakland Roots*

Sep 2025 - Present

Apprenticeship | Hybrid

- Hudl Wyscout**, **Catapult**, Impct, **VALD**, [matchdays.app](#), coaching, performance, **automating** data workflows.
- Reports, **500+ NCAA D1 & USL Athletes**, **100+ metrics**, scouting, **analysis**, **APIs**, **KPIs**, **Python**, pipelines.

## [Football Analytics Projects](#)

### [matchdays.app](#)

Jan 2026 - Present

- Football **analytics platform**, coaching **dashboards**, performance center, NCAA D1, USL staff, scouting, analysis.
- Automated** Wyscout tool, integrate **Catapult**, **VALD**, & more **APIs**, stores encrypted credentials, Flask, **Python**.

### [Hudl Wyscout Match Report Extension](#)

Jan 2026

- Hudl Wyscout** compatible **reporting app**, **100+** aggregates, athlete **dashboards**, match review PDFs, **KPIs**.
- 100+** **scout metrics**, supports match, season review, player evaluation, opposition **analysis**, talent identification.

### [Player Performance Outliers](#)

Sep 2025 - Jan 2026

- 100+ Catapult**, **VALD**, Output **KPIs**, **100+ report** pages, NCAA D1, **Python**, **NumPy**, **Pandas**, **Matplotlib**.
- Automated pipeline**, workload trends, injury risks, outliers, **Q-learning (ML)** & **XGBoost** advises next steps.

### [Premier League Scouting](#)

Jan 2026 - Mar 2026

- PL Scouting **database**, FPL & Understat **APIs**, **700+** players, minute & role based filters, comprehensive sorting.
- Detailed spreadsheet profiles, percentile **visuals**, **dashboards**, player comparison, export ready scouting metrics.

### [Player Actions v Usage Rates](#)

Sep 2025 - Nov 2025

- 300k+** views on X in **10** days via posts with efficiency profiles across positions to inform smarter squad building.
- Analysed 50+** Premier League players, correlated player productivity, revealing misused or underutilized players.

### [2025 Summer Squad Assessment](#)

Aug 2025 - Sep 2025

- Processed, cleaned**, & compared over **50** rumored and new signings against current & recently departed players.
- Reported insights** on positional needs & quantify fit, strengths, and risk flags during the 2025 summer window.

### [Progression Analysis \(24/25\)](#)

Jul 2025 - Aug 2025

- Collected** progression (passes, carries, receptions) over **42** games across a Premier League team's 24/25 season.
- Visualizations** show lower progression correlates with positive results for bottom half teams, and vice versa.

## Education

### [Santa Clara University](#)

Sep 2023 - Jun 2027

- Bachelor of Science in Computer Science and Engineering

## Technical Skills

**Data Analysis:** Hudl, Catapult, Python, Excel, NumPy, Pandas, Matplotlib, Seaborn, ML, RL

**General:** C, C++, Java, Data Structures & Algorithms, MATLAB, HTML, JavaScript, CSS, Netlify, Astro

**Software:** Final Cut Pro, Microsoft Visual Studio Code, Jupyter Notebooks, LinkedIn Sales Navigator, Git, GitHub