

# 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

Sep 2025 - Present

*Santa Clara University Broncos, Oakland Roots*

*Apprenticeship | Hybrid*

- **Hudl Wyscout**, **Catapult**, **Impect**, **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