

# Derek Chui

Santa Clara, CA

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## Summary

- Computer Science & Engineering student at Santa Clara University. Building football data analytic systems and 6G user clustering networks. Research Assistant. Regularly work with C/C++, MATLAB, Python, and Astro.

## Education

### Santa Clara University

Sep 2023 - Jun 2027

- Bachelor of Science in Computer Science and Engineering, Minor in Responsible AI
- Relevant Coursework: Data Structures, Object Oriented Programming, Probability and Statistics, Unix Scripting and Automation, Programming Languages, Information Storage

## Current Projects

### Football Analytics

Jul 2025 - Present

- Collection of Python projects. Data analysis, visualisation and web scraping.

### Network Optimization

Mar 2025 - Present

- Semantic utility driven NOMA networks & reinforcement learning.

## Research

### Hackworth Applied Ethics Research Grant

Nov 2025

- Submission: [How AI Biases Can Silence Certain Users in 6G Mobile Communications](#)

### BayLearn Machine Learning Symposium

Sep 2025

- Submission: [Semantic Aware User Pairing for 6G NOMA Networks](#)

### IEEE Consumer Communications & Networking Conference (Accepted as a Poster)

Aug 2025

- Submission: [Semantic Utility Aware User Grouping for 6G NOMA Networks](#)

### 2FURS (Faculty-mentored Undergraduate Research) Grant

Apr 2025

- \$1000

## Relevant Experience

### Research Assistant

Apr 2025 - Present

*Santa Clara University*

*Internship | Hybrid*

- Wireless Intelligent Networks and efficient user clustering in NOMA 6G networks.

### Teaching Assistant

Sep 2025 - Dec 2025

*Santa Clara University*

*Part-time | Hybrid*

- CSEN 171 Programming Languages, made assignments & autograders, led practicums & office hours.

## Relevant Skills

**Programming:** C, C++, Java, Data Structures & Algorithms, MATLAB

**Data Analysis:** Python, Web Scraping, NumPy, Pandas, Matplotlib, Seaborn

**Web Dev:** HTML, JavaScript, CSS, Netlify, Astro

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