

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

- Awarded in undergraduate research funding

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