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

IEEE Consumer Communications & Networking Conference Poster   Oct 2025
- Accepted: Semantic Utility Aware User Grouping for 6G NOMA Networks (2 Page)

BayLearn Machine Learning Symposium   Sep 2025
- Submission: Semantic Aware User Pairing for 6G NOMA Networks

IEEE Consumer Communications & Networking Conference   Aug 2025
- Submission: Semantic Utility Aware User Grouping for 6G NOMA Networks

2FURS (Faculty-mentored Undergraduate Research) Grant   Apr 2025

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