

# Derek Chui

Santa Clara, CA

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## Summary

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- 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

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<b>Santa Clara University</b>	Sep 2023 - Jun 2027
<ul style="list-style-type: none"><li>Bachelor of Science in Computer Science and Engineering, Minor in Responsible AI</li><li>Relevant Coursework: Data Structures, Object Oriented Programming, Probability and Statistics, Unix Scripting and Automation, Programming Languages, Information Storage</li></ul>	

## Current Projects

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<b>Football Analytics</b>	Jul 2025 - Present
<ul style="list-style-type: none"><li>Collection of Python projects. Data analysis, visualisation and web scraping.</li></ul>	

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<b>Network Optimization</b>	Mar 2025 - Present
<ul style="list-style-type: none"><li>Semantic utility driven NOMA networks &amp; reinforcement learning.</li></ul>	

## Research

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<b>Hackworth Applied Ethics Research Grant</b>	Nov 2025
<ul style="list-style-type: none"><li>Submission: <a href="#">How AI Biases Can Silence Certain Users in 6G Mobile Communications</a></li></ul>	
<b>BayLearn Machine Learning Symposium</b>	Sep 2025
<ul style="list-style-type: none"><li>Submission: <a href="#">Semantic Aware User Pairing for 6G NOMA Networks</a></li></ul>	
<b>IEEE Consumer Communications &amp; Networking Conference (Accepted as a Poster)</b>	Aug 2025
<ul style="list-style-type: none"><li>Submission: <a href="#">Semantic Utility Aware User Grouping for 6G NOMA Networks</a></li></ul>	
<b>2FURS (Faculty-mentored Undergraduate Research) Grant</b>	Apr 2025
<ul style="list-style-type: none"><li>Awarded in undergraduate research funding</li></ul>	

## Relevant Experience

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<b>Research Assistant</b>	Apr 2025 - Present
<i>Santa Clara University</i>	<i>Internship   Hybrid</i>
<ul style="list-style-type: none"><li>Wireless Intelligent Networks and efficient user clustering in NOMA 6G networks.</li></ul>	
<b>Teaching Assistant</b>	Sep 2025 - Dec 2025
<i>Santa Clara University</i>	<i>Part-time   Hybrid</i>
<ul style="list-style-type: none"><li>CSEN 171 Programming Languages, made assignments &amp; autograders, led practicums &amp; office hours.</li></ul>	

## Relevant Skills

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<b>Programming:</b> C, C++, Java, Data Structures & Algorithms, MATLAB
<b>Data Analysis:</b> Python, Web Scraping, NumPy, Pandas, Matplotlib, Seaborn
<b>Web Dev:</b> HTML, JavaScript, CSS, Netlify, Astro
<b>Software:</b> Final Cut Pro, Microsoft Visual Studio Code, Jupyter Notebooks, LinkedIn Sales Navigator, Git, GitHub