

# 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 & Teaching Assistant. Proficient in C/C++, MATLAB, Python, and Astro. Supported classes as a training specialist at Honeywell.

## 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

**General:** Lead Generation, Building Automation Systems (BAS), LaTeX

## 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.

## Publications

**Semantic Utility Driven User Pairing and Triplet Grouping for NOMA Networks** Aug 2025

- Submitted to the IEEE Consumer Communications & Networking Conference 2026.

## Education

**Santa Clara University** Sep 2023 - Jun 2027

*Bachelor of Science in Computer Science and Engineering, Minor in Responsible AI*

*Relevant Coursework: Object Oriented Programming, Data Structures, Programming Languages, Information Storage*

## Experience

**Teaching Assistant** Sep 2025 - Present

*Santa Clara University*

*Part-time | Hybrid*

- CSEN 171 (Programming Languages) grader for the Computer Science and Engineering Department.

**Research Assistant** Apr 2025 - Present

*Santa Clara University*

*Internship | Hybrid*

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

**Sales Development Representative** Jul 2024 - Aug 2025

*ProofJump*

*Part-time | Remote*

- Connected with professionals in the SaaS, B2B, and SDR industries through LinkedIn Sales Navigator. Planned and automated outreach emails to specific audiences. Set up routines for both outbound & inbound communication.

**Training Specialist** Jul 2024 - Nov 2024

*Honeywell*

*Part-time | On-site*

- Made training videos on Honeywell XLS fire alarm devices, helped plan courses, worked on site at various apartment buildings. Supported instructors during training. Training in Honeywell Building Automation Systems.

**Video Editor** Feb 2021 - Jul 2023

*Freelance*

*Remote*

- Edited video content for clients. Final Cut Pro for tasks like cutting, color grading, audio editing, and visual effects. Organized file management for raw footage, project files, and final exports. Motion graphics and animations.