

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

Santa Clara University

Sep 2025 - Present

Part-time | Hybrid

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

Research Assistant

Santa Clara University

Apr 2025 - Present

Internship | Hybrid

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

Sales Development Representative

ProofJump

Jul 2024 - Aug 2025

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

Honeywell

Jul 2024 - Nov 2024

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

Freelance

Feb 2021 - Jul 2023

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.