

Derek Chui

Santa Clara, CA

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Summary

- Computer Science and Engineering student minoring in Responsible AI and Research Assistant at Santa Clara University. Currently building projects focused on football data analytics & user clustering in 6G networks. 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

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| Semantic Utility Driven User Pairing and Triplet Grouping for NOMA Networks | Aug 2025 |
| • IEEE Consumer Communications & Networking Conference 2026. | |

Education

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|---|------------------|
| Santa Clara University | Santa Clara, CA |
| <i>Bachelor of Science in Computer Science and Engineering, Minor in Responsible AI</i> | <i>June 2027</i> |

Experience

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|--|----------------------------|
| Research Assistant | Apr 2025 - Present |
| <i>Santa Clara University</i> | <i>Internship Hybrid</i> |
| • Wireless Intelligent Networks and efficient user clustering in NOMA 6G networks. | |
| Sales Development Representative | Jul 2024 - Present |
| <i>ProofJump</i> | <i>Part-time Remote</i> |
| • 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 |
| <i>Honeywell</i> | <i>Part-time On-site</i> |
| • 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 |
| <i>Freelance</i> | <i>Remote</i> |
| • 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. | |
| Content Creator | Dec 2015 - Feb 2021 |
| <i>Self-Employed</i> | <i>Remote</i> |
| • YouTube content on gaming, lifestyle, tech, original video essays, montage segments, and more. Hosted a podcast with discussions and interviews. Blogs with written content and in depth articles, later compiled into a short book. | |