

# Chris Nelson

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## SUMMARY

Recent Graduate of Santa Clara University with a bachelor's degree in Computer Science & Engineering. Passionate coding nerd ready to work, learn, and grow both personally and professionally. Seeking entry level software engineering positions.

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## EXPERIENCE

### Software Engineering Intern | Festo Robotics

July 2019 - June 2020, Livermore, CA

- Designed and built a Python GUI app/tool to test and calibrate a high accuracy robotics device for a major customer.
- Optimized the workflow for testing and calibration of the product as measured by ease of use and reduction in testing time from a few hours to 20-30 minutes. This was done in part by streamlining and parallelizing the code.
- Created sub-modules that could run tests autonomously.
- Further developed skills in working with people and communicating effectively within a team.

### Technical Support Specialist | Self Employed

June 2017 - July 2020, Lafayette, CA

- Provided onsite IT help to local clients by migrating old photos & data, updating and debugging software, troubleshooting hardware, and ensuring a better overall user experience.
- Helped clients further understand their devices by answering questions in a clear & understandable way.
- Taught basics of computer programming to children in Python over the course of a few months.
- Formed good relationships with customers by being friendly, informative, and knowledgeable.

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## PROJECTS

### Basil Bot

SCU Senior Design • September 2019 - June 2020

- Developed a computer vision program (using OpenCV) to detect basil leaves in an image as measured accuracy of detection by finding the approximate center of each leaf with the goal of autonomously picking and placing leaves on a production line.
- Implemented a scalable machine learning algorithm to separate out good/bad leaves with 88% accuracy.
- Created the robot with a multidisciplinary team of Software and Mechanical Engineers.
- Published a Thesis Paper and presented the project at our Senior Design Conference.

### Autocomplete Text Editor

Personal • July 2020

- Built a basic text editor with autocompleting word suggestions.
- Used Google n-gram's top 10,000 common words to offer word suggestions as the user types.
- Optimized performance by using Python's NumPy Library.

### Peer to Peer File Sync CLI

SCU Computer Networks • March 2019

- Built a P2P file syncing CLI that synced files between a list of peers by using a TCP connection and socket programming concepts in C.
- Collaborated with a team to design, diagram, and implement the project from the ground up.
- Improved team communication and debugging skills after many late nights spent on fixing bugs.

### Eigenvector Grapher

SCU Linear Algebra • March 2018

- Designed a GUI based python program to visualize a Predator/Prey relationship that dynamically constructed a graph by using eigenvectors and given eigenvalues.

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## EDUCATION

### Bachelor of Science in Computer Science & Engineering

Santa Clara University • Santa Clara, CA • 2020 • 3.4

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## SKILLS

Languages: Python, C, C++, Java, SQL

Technologies/Frameworks: Git, NumPy, OpenCV, Tkinter, Docker, Word, Excel

Personal Skills: Hard working, passionate, driven, reliable