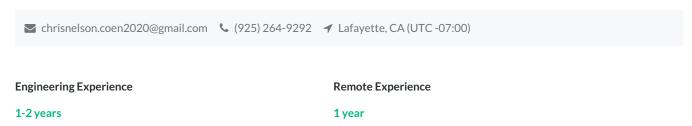
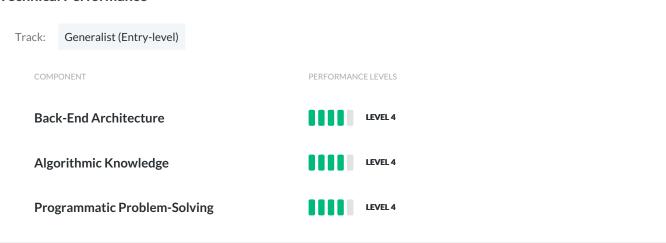
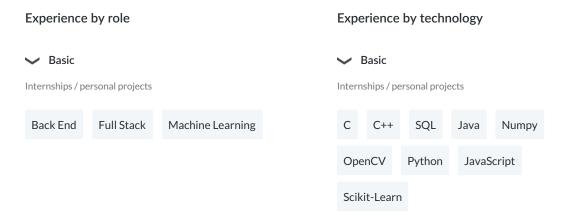
Chris Nelson



Technical Performance



Technical Experience



Background

E Work Experience

Software Engineer at Festo

July 2019 - June 2020

LIVERMORE, CALIFORNIA, UNITED STATES

- Redesigned and built a Python tool to test and calibrate a high accuracy pneumatic device.
- Reduced testing time from 2 hours down to 20 minutes by streamlining the user interface and parallelizing the code.
- Created sub-modules to completely automate certain tests.
- Further developed skills working with people and communicating effectively within a team.

Technical Support Specialist at Self Employed

June 2017 - July 2020

- 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.
- Built trust by communicating technical information to clients at their level of understanding.
- Taught programming basics by helping kids build an interactive game using Python.
- Repeatedly commended for being friendly, informative, and helpful.

Education

B.S. Computer Science & Engineering at Santa Clara University

September 2016 - June 2020

SANTA CLARA, CALIFORNIA, UNITED STATES

- Related Coursework:
- Abstract Data Structures, Advanced Data Structures, Theory of Algorithms, Programming Languages, Software Engineering, Machine Learning, Web Information Management, Operating Systems, Embedded Systems, Computer Architecture, Computer Networks, Discrete Math, Logic Design

Predictive Text Editor July 2020

- Built a text editor with autocomplete suggestions as the user types.
- Used Google n-gram's top 10,000 common words to offer continuously updating suggestions.
- Implemented extensive NumPy Library for optimal performance with simple building blocks.
- https://github.com/Chris300127/TextPredictor

Senior Design - Basil Leaf Automation

May 2020

- Created a robot with a multidisciplinary team of Software and Mechanical Engineers.
- Implemented computer vision algorithm (using OpenCV) to detect and find the center of basil leaves in an image with 99% accuracy.
- Developed a communication protocol between an Nvidia Jetson Nano and Raspberry Pi to convert program coordinates to real world
 points with the goal of autonomously picking and placing leaves on a production line.
- Published a Thesis Paper and presented the project at the SCU Senior Design Conference.
- https://m.youtube.com/watch?v=-mwG_F_w4d0

Peer to Peer File Sync CLI

March 2019

- Built a peer to peer file syncing command line application to synced specific files between a list of peers using a TCP connection and socket programming concepts in C.
- Collaborated with a team designing, diagraming, and implementing the project from the ground up.
- Improved team communication and debugging skills after many late nights fixing bugs.
- https://github.com/Chris300127/P2P_Networks_Project