

Chris Nelson



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EDUCATION

Santa Clara University, Santa Clara, CA

Graduation: **June 2020**

Bachelor of Science in Computer Science & Engineering

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

SKILLS

Languages: C/C++, Python 3 (Tkinter, NumPy, OpenCV, SKLearn), Unix CLI, Java

Operating Systems: macOS, Linux, Windows

Personal: Hard working, good communicator, team player

PROJECTS

Senior Design Project – Basil Bot: Python program using computer vision to identify basil leaves in an image, determine healthiness of each leaf using machine learning, and send the coordinates of the leaf's center to a pick and place robot whose job was to pick up and drop the leaf in a can of tomato sauce.

Autocomplete Text Editor: Python/Tkinter text entry app using Google n-gram's top 10,000 common words to offer autocomplete suggestions as the user types

Peer to Peer File Sync App: Built a peer to peer networking application that synced specific files between a list of peers using a TCP connection. Worked as part of a group to write project from the ground up using socket programming in C.

Eigenvector Graphing Project: Designed a GUI based python program to visual a Predator/Prey relationship that dynamically constructed a graph using eigenvectors and given eigenvalues.

EXPERIENCE

Software Engineering Intern – Festo Corporation

July 2019 – June 2020

- Designed and built a GUI application to test and calibrate a pressure controller
- Programmed the application in Python 3 using the TkInter toolkit
- Improved and optimized the workflow for testing and calibration of this particular Festo product
- Further developed skills in working with people and communicating effectively within a team

IT Specialist – Personal Tech Help Business

June 2017 – January 2020

- Provided onsite IT help to local clients by setting up photo sharing and backup software, troubleshooting hardware issues, and diagnosing issues with Wi-Fi networks
- Answered any tech questions to give clients a better understanding of their devices
- Offered classes for kids to learn the basics of programming using Python
- Formed good relationships with customers, and was often hired again on other occasions