




JEFF COLLINS

(408) 605-5903 

jeff@jrcollins.com 

www.jrcollins.com 

www.linkedin.com/in/jeffreycollins1/ 

Education

Santa Clara University | Graduated June 2020

September 2016 - June 2020

Bachelor of Science, Web Design and Engineering, Dept of Computer Engineering

Relevant Coursework: Software Engineering; Data Structures; Advanced Computer Programming; Principles, Design, & Implementation of Programming Languages; Computer Networks; Web Infrastructure; Advanced Web Programming; Web Information Management; Web Usability; Website Graphic Design I/II; Digital Imaging; Digital Filmmaking; Electric Circuits + Circuit Design/Analysis Lab; Full Calculus + Physics sequence; Linear Algebra; Differential Equations; Discrete Math; Probability & Statistics

Experiences

Tesla | Autopilot & Software Testing

Palo Alto, CA

Software Engineering Intern

December 2019 - September 2020

- Implementing a new, vastly superior architecture and method for software update distribution
- Creating new data pipelining frameworks, including innovative solutions for data acquisition, analysis, & display
- Developing additional skills in database management, data analysis, and bash workflow scripting

Santa Clara University | Senior Design Project

Santa Clara, CA

LeaPi: Wireless Diagnostic Assistant

September 2019 - June 2020

- Created a diagnostic system capable of detecting areas of high and low coverage in the deployment zone; algorithm uses packet loss and physical-layer bitrate to determine WiFi coverage
- Designed and programmed an inexpensive hardware platform that can be deployed quickly and efficiently in the home or business as part of a team of four undergraduates
- Utilized Python and Bash scripting skills to program the Raspberry Pi hardware platform

Applied Materials | ETCH

Santa Clara, CA

Software Engineering Intern

September 2017 - April 2019

- Created & managed an internal-use web server and UI for viewing data from tools; data parsed using REGEX
- Created succinct programming solutions to complex problems presented by tool data upload failures, unreliable tool measurements, discovering malfunctioning parts, and more
- Co-developed and updated a one-stop-shop data acquisition application to pull any data from any tool at any time for internal use
- Tested large-scale internal use software that my team developed

Leadership

Boy Scouts of America

San Jose, CA

Eagle Scout

- Awarded the highest rank & honor possible in the Boy Scouts organization, Eagle Scout, at 14 years old
- Managed my entire fifty-scout troop as the president for six months
- Led troop in installing handmade benches and renovating garden in my Eagle Project (>450 total man hours)

Skills

Software / Programming Languages

Python	C#	HTML	REGEX	Excel	Adobe Illustrator	Linux Terminal	Raspberry Pi
Java	C++	CSS	PHP	Mathcad	Adobe Photoshop	Data Pipelining	PC Building
SQL	C	JavaScript	Bash	MATLAB	Adobe XD	PSPICE (TINA)	Test Equipment

Hardware / Test