

# JEFF COLLINS

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## Education

### Santa Clara University

September 2016 - June 2020

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

Relevant Coursework: Advanced Web Programming, Web Infrastructure, Advanced Computer Programming, Computer Networks, full Calculus + Physics sequence, Linear Algebra, Differential Equations, Discrete Math, Electric Circuits + Circuit Design/Analysis Lab, Website Graphic Design

## 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, and 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

- Creating a diagnostic system capable of detecting areas of high and low coverage in the deployment zone; algorithm currently uses packet loss and physical-layer bitrate to determine WiFi coverage
- Working with a team of peers and faculty to create an inexpensive hardware platform that can be deployed quickly and efficiently in the home or business
- Using Python and Bash scripting skills to program the devices

### 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 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

HTML	C	SQL	Bash	PowerPoint	Adobe Illustrator	REGEX	Circuit Test Equip.
CSS	C++	PHP	Word	Outlook	Adobe Photoshop	Mathcad	PSPICE (TINA)
Java/Script	C#	Python	Excel	OneNote	Adobe XD	MATLAB	Circuit Simulators

### Hardware