
EDUCATION**University of California, San Diego****La Jolla, CA***B.S. Computer Engineering | Minor in Music | Wind Ensemble Percussionist**September 2017 – Anticipated June 2021*

- Cumulative GPA: 3.83

Provost Honors: Winter 2018, Spring 2018, Fall 2018

Santa Teresa High School**San Jose, CA**

- Cumulative GPA: 4.0 unweighted. Valedictorian.

August 2013 – May 2017

PROGRAMMING SKILLS

Proficient: Java | Python | C | C++ | ReactJS | HTML | CSS | Selenium | Microsoft VBA | Perforce | Git | Jira | Agile | Scrum

Familiar: JavaScript | ARM Assembly | NodeJS | Shell Scripting | Django | PostgreSQL | Linux | Windows | Arduino

WORK EXPERIENCE**Vocera Communications****San Jose, CA***Intern, Test Engineer**June 2018 – September 2018*

- Fixed functionality issues and improved 25+% performance of the Selenium/Python test suite for the Web Console automation Agile Scrum project; recognized by VP R&D, CTO and CEO
- Developed new Selenium/Python automation scripts for testing Web Console and Voice Server interactions on Windows OS
- Designed and developed Voice Command Locale Pack Tool for test engineering; first tool to support different Locale Packs
- As assistant to SW Director, developed Excel VBA automated visualization and analytics from JIRA bug tracking dataset

Qualcomm Institute, UCSD College of Engineering**La Jolla, CA***Web Developer**April 2018 – Present*

- Designing and developing the institution portal with the ReactJS framework and front-end web design languages
- Developing web apps for annual workshop for the Information Theory and Applications Center at ita.ucsd.edu/ws/

Triton Software Engineering (TSE)**La Jolla, CA***Developer**January 2018 – June 2018*

- Key developer in an Agile Scrum project implementing the OrgMatch website using HTML, CSS, JavaScript, Python, Django and PostgreSQL, which matches volunteers to non-profit organizations needing volunteer help

PROJECTS**“build-a-website” Course at Mar Vista High School***March 2019 – Present*

- Lead a team to create a course intended to teach students more about computer science at wes-chen.github.io/build-a-website
- Course teaches students how to use HTML, CSS, Bootstrap, and JavaScript to create their own professional websites

MESA National Engineering Design Challenge - Prosthetic Arm Challenge*September 2015 – April 2017*

- Lead a team to prototype a low-cost prosthetic arm with Arduino and Arduino C and present engineering process to judges
- Two-time winner of the San Jose State University MESA Day Competition 2016 and 2017

COMPETITIONS**High School Capture The Flag Competition (HSCTF)***May 2014*

- Ranked 54th out of over 2000 nationwide competitors in a high school computer science competition team.

RELEVANT COURSEWORK AND SKILLS**Advanced Data Structures:** C++ language, high performance data structures and supporting algorithms, performance analysis**Computer Organization and Systems Programming:** C lang and ARM Assembly languages, Linux systems programming**Basic Data Structures and Object-Oriented Design:** Java and C, algorithms, test driven development, JUnit framework**Software Tools and Techniques:** Linux development environment, shell scripting, Eclipse IDE, GDB, Valgrind, GIT**Object-Oriented Programming:** Java language and principles, software engineering approach to OOP

LEADERSHIP**Triton Software Engineering (TSE)****La Jolla, CA***Vice President, External**April 2017 – Present*

- Connected TSE (tritonse.github.io) to external organizations in need of pro bono software development services
- Acted as liaison for the development of projects between project managers of TSE and external organizations

MESA (Math, Engineering, Science, Achievement)**San Jose, CA***President, Vice President**Sept 2013 – May 2017*

- Served as President 2015-17 and Vice President 2013-15, led the club to the most first place wins in competitions in district.

LANGUAGES

English (Native Speaker), Mandarin Chinese (Fluent), Spanish