

# TONY DE LA NUEZ

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## SKILLS

### SKILLED WORKING KNOWLEDGE BASIC KNOWLEDGE

Java, Arduino, HTML, CSS, JavaScript, Swift, AWS, UNIX/LINUX, PHP, Node.js, ExpressJS, MySQL, Git  
C++, MongoDB, Python, Socket.IO, AngularJS, C, ExpressJS, Docker  
ReactJS, Ruby on Rails

## EDUCATION

2018	<b>Washington University in St. Louis</b> M.S. Computer Science B.S. Computer Engineering B.S. Computer Science Graduate Certificate in Data Mining and Machine Learning Advanced Coursework: Data Structures and Algorithms, Microcontrollers, Web Application Development, Computer Architecture, Systems Software, iOS Development, OOP Development Lab (C++), Video Game Development
2015	<b>St. Mary's College of California</b> BA Liberal Arts + Physics Focus (3+2 Engineering Program) 2014, 2015 D1A USA Rugby National Champions Advanced Coursework: Modern Physics, Computational Physics (MATLAB), Mathematical Modeling (Python)

## EMPLOYMENT

May 2017 to Present	<b>Cornell Consulting, LLC - St. Louis, MO</b> Software Development Consultant Collaborated on design and implementation of full stack multi-site image search solution for client using PHP and MongoDB on Linux
Nov 2016 to Present	<b>Washington University in St. Louis - St. Louis, MO</b> Creator, Instructor (Data Structures and Algorithms Seminar / WUCode) Created and currently instruct university course to test 50+ students on data structures and algorithms implementations in a fast-paced development environment, utilizing pair programming and on-the-spot code review
Nov 2016 to Present	<b>Head Teaching Assistant (Data Structures and Algorithms)</b> Manage 300 student repositories, 50+ TAs, hold office hours, provide additional lectures, answer student questions
Jun 2016 to Aug 2016	<b>E&amp;J Gallo Winery – Modesto, CA</b> Electrical Engineering Intern, G3 Corporate Engineering Designed HMI and PLC for factory equipment and wrote SOP for step-by-step testing protocol
Jun 2015 to Aug 2015	<b>Control Systems Engineering Intern</b> Designed PLC system to automate wine tank ON/OFF valves and flow pressure during product cycles and cleaning
Jun 2014 to Aug 2014	<b>Production Engineering Intern, G3 Mobile Bottling</b> Assisted bag-in-box wine trial; reduced dissolved oxygen introduced to the product by 20% of industry standard
Jun 2013 to Aug 2013	<b>Mechanical Engineering Intern, Gallo Glass</b> Led research, scope of work writing, contracting for \$300k project to reuse water and create zero discharge facility
Jun 2012 to Aug 2012	<b>Engineering Intern</b> Organized and led Kaizen to evaluate logistics error in international processing and improved process time by 60%

## PROJECTS

Mar 2017 to Apr 2017	<b>WatchAlong - (Node.js Web Application)</b> Created a web app allowing users to create YouTube playlists and take real-time rendered Markdown, PDF exportable notes
Mar 2017 to Mar 2017	<b>Socket.IO Chat Web App - (Node.js, Socket.IO Web Application)</b> Utilized web sockets to build a chatroom application with multiple room functionality, user private messages, admin privileges
Mar 2017 to Apr 2017	<b>GroupUP - (iOS Application)</b> Built iOS app which allows students to connect with groups around campus, chat integration with Firebase and JSQMessages
Feb 2017 to Mar 2017	<b>MovieMate - (iOS Application)</b> Built iOS app using the OMDB API which allows users to search movies, cache favorites, and find a website to stream movies
Feb 2017 to Mar 2017	<b>News Website - (PHP &amp; MySQL Web Application)</b> Developed a news site in PHP and MySQL with a focus on usability and web security
Oct 2016 to Dec 2016	<b>Arduino Fitbit Clone - (C &amp; Java Application)</b> Created fitness tracker with PC communication protocol, step, sleep, and temperature tracking, user interface