Tony De La Nuez

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Education

Washington University in St. Louis	**August 2015 - May 2018**

Master of Science in Computer Science
Bachelor of Science in Computer Science
Bachelor of Science in Computer Engineering

St. Mary's College of California	**September 2012 - May 2015**

Bachelor of Arts in Liberal Arts, Physics Focus (3 + 2 Engineering Program)
St. Mary's College Division 1 Men's Rugby Club
- 2014 USA Rugby Division 1 National Champions
- 2015 USA Rugby Division 1 National Champions

Technical Skills

Skilled:	Java, Arduino C, HTML, CSS, Amazon Web Services, UNIX/LINUX
Working Knowledge:	JavaScript, MongoDB, Express.js, AngularJS, Node.js, PHP, MySQL, Git
Basic Knowledge:	C, C++, Python, Ruby on Rails

Experience

Washington University in St. Louis – St. Louis, MO

Head Teaching Assistant (Data Structures and Algorithms)   **November 2016 - Present**
- Manage student repositories, TA scheduling, hold office hours, recitation, answer student questions
- Maintain 300 student repositories, 50+ TAs, hold office hours, provide additional lectures on course topics

Instructor (Data Structures and Algorithms Seminar / WUCode)   **November 2016 - Present**
- Lecture and test 50+ students on data structures and algorithms implementation and common interview questions
- Guide students in pair programming and conduct on-the-spot code review

G3 Enterprises (E&J Gallo Winery Partner Company) - Modesto, CA

Electrical Engineering Intern, G3 Corporate Engineering   **June 2016 - August 2016**
- Designed HMI and PLC for cork printing automated machinery and transformer room information panels
- Created SOP for refractive window dryer with step-by-step testing protocol and diagrams for easy use by operator
- Analyzed cap transportation; implemented feeding change resulting in 40% improvement of yield

Engineering Intern, Mobile Bottling Division   **June 2014 - August 2014**
- Assisted bag-in-box wine trial; reduced dissolved oxygen introduced to the product by 20% of industry standard
- Created bottling process revisions to eliminate choke points caused by inefficient machinery or time management

E&J Gallo Winery - Modesto, CA

Control Systems Engineering Intern, Corporate Engineering   **June 2015 - August 2015**
- Designed PLC system to automate wine tank ON/OFF valves and flow pressure during product cycles and cleaning
- Relocated and organized plant machine set variables in Excel by pulling data from control database and archives

Engineering Intern, Global Customer Services and Logistics   **June 2012 - August 2012**
- Organized and led Kaizen to evaluate a systematic error in international processing, improved process time by 60%

Gallo Glass Company - Modesto, CA

Engineering Intern, GGC Engineering   **June 2013 - August 2013**
- Led research, scope of work writing, contracting for $300k project to reuse water and create zero discharge facility

Projects

This Warlock of Mine – Platformer PC Game	**January 2017 - Present**
- Building platformer game in GML with enemy AI, custom physics, event scripting, and UI/UX consideration

Arduino Fitbit Clone	**November 2016**
- Created fitness tracker with PC communication protocol, step, sleep, and temperature tracking, user interface

Class Advisor Web App	**October 2016 – January 2017**
- Developed MEAN Stack web application to connect WUSTL students for class registration mentoring/advice

Echocardiogram Design Project	**February 2016 - May 2016**