

## **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/Extracurricular Activities**

### **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**