

## ***Education***

<b>Washington University in St. Louis</b>	<b>August 2015 - May 2018</b>
Master of Science in Computer Science	
Bachelor of Science in Computer Science, Minor in Electrical Engineering	
<b>St. Mary's College of California</b>	<b>September 2012 - May 2015</b>
Bachelor of Arts in Liberal Arts, Physics/Engineering Focus	

## ***Technical Skills***

<b>Languages:</b>	Java, HTML, CSS, JavaScript, Familiar with Ruby, Arduino C, Python, & MATLAB
<b>Libraries/Frameworks:</b>	jQuery, Bootstrap, Familiar with Ruby on Rails, WordPress
<b>Deployment/Management:</b>	Git, Heroku, XAMPP
<b>Software:</b>	Eclipse IDE, AutoCAD, Microsoft Office, FactoryTalk View
<b>Methodologies:</b>	Object Oriented Programming, Lean/Six Sigma process evaluation

## ***Experience***

<b>Freelance Web Development</b>	<b>August 2016 - Present</b>
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- Consulted with client to discuss wireframes, website goals, and functionality
- Designed and deployed web sites including writing and editing functional pages with user interaction

### **G3 Enterprises - Modesto, CA**

<i>Engineering Intern, G3 Corporate Engineering</i>	<b>June 2016 - August 2016</b>
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- Constructed detailed floor plans of plant and machine layout and designed duct system to transport waste
- 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

<i>Engineering Intern, Mobile Bottling Division</i>	<b>June 2014 - August 2014</b>
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- 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**

<i>Control Systems Engineering Intern, Corporate Engineering</i>	<b>June 2015 - August 2015</b>
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- 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

<i>Engineering Intern, Global Customer Services and Logistics</i>	<b>June 2012 - August 2012</b>
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- Organized and led Kaizen to evaluate a systematic error in international processing and improved process time by 60%
- Redesigned shipping container parking lot

### **Gallo Glass Company - Modesto, CA**

<i>Engineering Intern, GGC Engineering</i>	<b>June 2013 - August 2013</b>
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- Led research, scope of work writing, and contracting for \$300k project to reuse water and create zero discharge facility
- Formulated solution to machine error in product packing, created write-up and implementation program
- Constructed electronic library for all manufacturing plant manuals

## ***Projects/Extracurricular Activities***

<b>Twitter4J Research Project: Using Twitter API for Geolocation</b>	<b>September 2016 - Present</b>
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- Currently assisting Dr. Cytron at Washington University in St. Louis in developing a Java tool using Twitter4J library and Twitter API to survey events and popular topics in certain areas based on Twitter traffic

<b>Echocardiogram Design Project</b>	<b>February 2016 - May 2016</b>
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- Demonstrated ECG use of human heart as voltage source; constructed amplifying circuit with grounding, common-mode voltage filtering, Wilson's central terminal to convert heart signal to ECG waveform viewable on a computer

<b>St. Mary's College of California Men's Rugby</b>	<b>September 2012 - May 2015</b>
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- 2014 USA Rugby D1A National Champion
- 2015 USA Rugby D1A National Champion