

# TONY DE LA NUEZ

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## SKILLS

**PROGRAMMING LANGUAGES:** Java, JavaScript, PHP, Python, Swift (for iOS), C++, C, x86 Assembly  
**DATABASES:** MySQL, T-SQL, PostgreSQL, MongoDB, Firebase  
**WEB:** HTML, CSS, AngularJS, ReactJS, ExpressJS, Socket.IO  
**SERVERS / DEPLOYMENT:** LAMP (Apache), Node.js, Unix, Linux, Docker, AWS (EC2, S3)  
**DATA SCIENCE:** scikit-learn, Hadoop MapReduce, Apache Spark

## EDUCATION

### Washington University in St. Louis

M.S. Computer Science  
B.S. Computer Engineering  
B.S. Computer Science  
Cert. Data Mining and Machine Learning  
Expected Graduation: May 2018

### St. Mary's College of California

B.A. Liberal Arts + Physics  
3+2 Engineering Program  
2014, 2015 D1A USA Rugby National Champions

## SELECTED PROJECTS

### WatchAlong

Created a web app with Node.js allowing users to create YouTube playlists and take real-time rendered Markdown, PDF exportable notes

### Socket.IO Web Chatroom

Utilized web sockets to build a chatroom application with multiple room functionality, user private messages, admin privileges

### GroupUP

Built iOS app which allows students to connect with groups around campus, chat integration with Firebase and JSQMessages

### MovieMate

Built iOS app using the OMDB API which allows users to search movies, cache favorites, and find a website to stream movies

### Arduino Fitbit Clone

Created fitness tracker with PC communication protocol, step, sleep, and temperature tracking, user interface

## VOLUNTEERING

### Hack the Hood

San Francisco, CA

Introduced low-income youth of color to careers in tech by teaching the fundamentals of web design, development, and professional skills and training them to build websites for real small businesses in their own communities

Present

## EMPLOYMENT

### BlackRock, Inc.

San Francisco, CA

Summer Analyst · Jun 2017 - Aug 2017

Assisted in development of a distributed web application with Python (Django), Angular 2  
Developed algorithm and parser to determine similarity percentages between JSON documents  
Automated critical business workflow to reduce unnecessary steps and security issues using Python and T-SQL  
Led effort to overhaul internal open source system with repository management scripts and web portal

### Cornell Consulting, LLC

San Francisco, CA (Remote)

Full Stack Web Developer · May 2017 - Aug 2017

Collaborated on design and implementation of full stack multi-site image search solution using PHP and MongoDB on Linux

### Washington University in St. Louis

St. Louis, MO

Instructor · Nov 2016

Created and currently instruct university course to test 80+ students on data structures and algorithms implementations in a fast-paced development environment, utilizing pair programming and on-the-spot code review

Head Teaching Assistant · Nov 2016 - Present

Manage 300 student repositories, 50+ TAs, hold office hours, provide additional lectures, answer student questions for WashU's Data Structures and Algorithms course

### E&J Gallo Winery

Modesto, CA

Electrical Engineering Intern · Jun 2016 - Aug 2016

Designed HMI and PLC for factory equipment and wrote SOP for step-by-step testing protocol

Automation Intern · Jun 2015 - Aug 2015

Designed PLC system to automate wine tank ON/OFF valves and flow pressure during product cycles and cleaning

Production Engineering Intern · Jun 2014 - Aug 2014

Assisted bag-in-box wine trial; reduced dissolved oxygen introduced to the product by 20% of industry standard

Mechanical Engineering Intern · Jun 2013 - Aug 2013

Led research, scope of work writing, contracting for \$300k project to reuse water and create zero discharge facility

Engineering Intern · Jun 2012 - Aug 2012

Organized and led Kaizen to evaluate a systematic error in international product roll-out and improved process time by 60%