

Enrique Gonzalez

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LANGUAGES AND TECHNOLOGIES

- **Proficient:** Java, C, C++, Ogre, Python, JavaScript, jQuery, D3.js, SQL, MySQL, Git, Agile Development, AWS (EC2, RDS), HTML5, CSS3, MaterializeCSS, JUnit
 - **Exposure:** Flask, Ruby, Android SDK, Jetty, Apache HTTPComponents, MPI (Message Passing Interface), Xv6
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RECENT PROJECTS

Software Engineer | Magic Mirror | [live](#) | [code](#)

2016

Variation of Michael Teeuw's "Magic Mirror" - sleek interactive display showing useful info reflected on a two way mirror.

- Improved reflection by ~50% by designing dynamic high contrast UI/UX with JavaScript, HTML5, and CSS3.
- Wrote JSON data parser using jQuery and AJAX to continually update the time, weather, and Muni data, maintaining 99% accuracy and avoiding rate limits of 3rd party API calls.
- Avoided Cross Site Scripting (XSS) by implementing a PHP script to send HTTP GET requests rather than having the client making the requests to the external APIs.
- Incorporated 2 web API's (Forecast.io, SF Muni) to retrieve real-time data set on a 30 second interval.
- Utilized Raspbian (Jessie) on RPi2 to install an Apache Server with Chromium directed to localhost and set to open in full screen during boot in order to properly display on the two way mirror.

Software Engineer + Scrum Master | MARS Health | [code](#)

2016

Android appointment application for single physician offices.

- Facilitated scrum agile development on a team of 3 engineers with daily standups and Git for version control.
- Architected MySQL DB schema with 9 tables using SQL to establish foreign keys, triggers, and procedures to automate scheduling and reduce creation time of appointments by ~98%.
- Eliminated ~30% of potential calls to the doctor's office by enabling direct staff-patient communication through constructing messaging system using Java, Android SDK and Sinch SDK.
- Constructed an AsyncTask to enable multithreading which allowed appointment search while using the app.

Software Engineer | Search Engine | [code](#)

2014

Multi-threaded search engine that crawls through a website and ranks words by word count, position and relevance.

- Implemented an inverted index structure using Java that maps words to positions in a file and number of times it appears, allowing for search queries to be completed in $\log(n)$ run time.
 - Architected HTTP web server with Jetty to integrate a web interface for users to search for specific words.
 - Ranked results by frequency, position and location of words searched, moving relevant searches to the top.
 - Engineered multi threaded search and parsing by creating a custom Lock class allowing one writer at a time.
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PROFESSIONAL EXPERIENCE

ITS Help Desk Technician | University of San Francisco ITS | San Francisco, CA

2014 - 2016

- Reduced ticket system search time by ~40% through integrating ServiceNow into Slack platform using PHP.
- Checked 30+ tickets daily, assessing problems and providing answers with 90%+ resolution satisfaction rate.
- Functioned as lead technician on team of 8, mentoring hires on ServiceNow, Exchange, and Cisco products.

CS110 Teacher Assistant | University of San Francisco CS Dept. | San Francisco, CA

2014 - 2014

- Taught 25+ CS students Python OOP fundamentals, best practices and frameworks such Flask and Turtle.
 - Held weekly office hours to debug and refactor >1000 lines of Python code and provided project guidance.
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EDUCATION

B.S. Computer Science, University of San Francisco, CA

2016

LEADERSHIP + AWARDS

Founding Secretary and President, Pi Kappa Phi

2013 - 2016