

# Alexander Hermstad

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## EDUCATION

### University of California San Diego, La Jolla, CA

Computer Science B.S, GPA: 3.9, Expected graduation: June 2018

## EXPERIENCE

### Foundation for Learning Equality - Software Engineering Intern January 2017 - March 2017

- Wrote bash scripts to automate conversion of a PyPI package to an Arch Linux PKGBUILD
- Implemented a Dockerfile to be ran on the build server to automate the updating and packaging of new releases
- Technologies used: Docker, Bash, Arch Linux, Python

### Doctible - Software Engineering Intern October 2016 - January 2017

- Implemented an interface/adaptor with an Office Management API to a PostgreSQL database, using Ruby and ActiveRecord
- Built a web scraper using the Nokogiri and Mechanize Gems to extract and parse patient/appointment data in a general and extensible format
- Technologies used: Ruby, Rails, Redis, PostgreSQL, RSpec

### Skqrl - Software Engineering Intern June 2016 - September 2016

- Developed front-end UI tweaks using JavaScript and jQuery to improve UX for multiple pages
- Designed and implemented a solution to store a user's location metadata in the database using Python/Django and MySQL
- Technologies used: Python, Django, MySQL, JavaScript, jQuery, Google Location API

## PROJECTS

### Large Lyrics - Web App written in Spring

- Built an HTTP client/wrapper for the Genius API to obtain lyrics and annotations for artists.
- Leveraged concurrency, asynchronous requests, and Java 8 CompletableFutures to greatly reduce response times
- Utilized JavaScript D3 libraries/components to visualize artist Lyric and Annotation data

### MusExplore - Web App written in Django

- Designed and implemented a responsive frontend using Bootstrap and custom CSS
- Configured and deployed the app on an nginx server with Gunicorn
- Queried and parsed results from REST APIs, making a custom format for data obtained about musical artists

### CoupleTones - Location-based Android App

- Implemented an interface with the Google Maps API, using Google Cloud Messaging as a backend
- Designed a frontend for the app using best practices of Google's Material Design

## TECHNOLOGIES AND SKILLS

**Competent:** Python, Java, C/C++, Git, Ruby, UNIX, HTML/CSS, SQL, Docker

**Familiar:** Bootstrap, JavaScript, jQuery, Node, REST, Agile, Maven, Hibernate, Spring