

# Alexander Hermstad

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## EDUCATION

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

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

## TECHNOLOGIES AND SKILLS

- **Experienced:** Python, Java, C/C++, Git, UNIX, HTML/CSS, SQL
- **Familiar:** Django, Rails, Bootstrap, nginx, JavaScript, jQuery, REST, Agile, Android

## PROJECTS

- **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
- **Personal Portfolio Website** - [hermstadalex.github.io/portfolio](http://hermstadalex.github.io/portfolio)
  - Wrote HTML with CSS and bootstrap to style and format a responsive personal portfolio website
  - Implemented JavaScript interactivity with a game made with vanilla JavaScript and jQuery

## RELEVANT COURSEWORK

- **Completed:** Software Engineering, Discrete Math, Data Structures and Object Oriented Design, Algorithm Analysis, Systems Programming
- **Planned** (will be completed by Summer 2018): Interaction Design, Operating Systems, Advanced Algorithms, Neural Networks

## UNIVERSITY ORGANIZATIONS

### IEEE UCSD, Fall 2015 – Present

- Collaborated with a team to build and implement a small autonomous RC vehicle using a Raspberry Pi with ArduPilot
- Developed a custom controls engine based on GPS data using Python with the microcontroller's firmware
- Maintained and updated a website to document progress. Implemented using the Jekyll static site service