

David Justo

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Work Experience

Machine Learning, Perception and Cognition Lab - Research Assistant - January 2016 to present:

Assisting professor Zhuowen Tu with the implementation of a self flying drone through Deep Learning.

- Used Gazebo to implement a virtual simulation of the drone and gather training data
- In the process of implemented a Convolutional Neural Network to get a baseline of performance for the drone.

SDSC - Research Assistant - January 2015 to present:

Working at the San Diego Supercomputer Center on a recommender system project with professor Julian McAuley

- Developed python scripts for processing and parallelizing of data processing and analysis
- Designed Scientific workflows for topic modeling of data in Kepler

Panafold - Software Engineer - June to September 2016:

Interned at Interpreta, a web company with a focus on content discovery.

- Implemented a recommendation engine for their discovery site using Collaborative Filtering in Spark
- Ported their webApp to a native desktop application using Electron
- Improved the performance of their site with React.JS

Interpreta - Web Developer - June to September 2015:

Interned at Interpreta, a health technology startup in San Diego.

- Implemented the export As functionality to convert the data displayed to formats such as PDF, XLS and CSV
- Developed unit tests to for their MongoDB queries using Mongoose and Mocha.js
- Worked on multiple facets of the User Interface such as Data visualization with DS3

SD Hacks - Web Development Workshop host and workshop coordinator - Fall 2015:

Developed and taught basic web development with the MEAN stack at UCSD's first iteration of SD Hacks. I was also in charge of coordinating all other workshops

Education

University of California, San Diego

B.S in Computer Science, expected: June 2018

GPA (3.5)

Organizations

Data Science Student Society (DS3):

VP for the Data Science Student Society at UCSD.

- Organize and host workshops on data analysis and Machine Learning
- Developed sponsorship package
- Involved in planning of a Datathon at UCSD

Technologies

- **Data:** Python, Cython, SciPy, Lasagne
- **Android:** Java, Firebase, Google Play Services, GCM, JUnit
- **General:** C++, C, Assembly
- **Databases:** MongoDB, SQL
- **Web:** HTML, CSS, Javascript, ReactJS, Electron, Node.JS

Others

- **Software Engineering Experience:** Design Patterns, Design by Contract, Agile Software Process, Jira, Git, Object Oriented Design, TDD
- **Languages:** Fluent in Spanish , Fluent in German (Hochdeutsch), Intermediate fluency in French
- Participant in competitive programming: LaHacks, HackSB and others.

Tutoring Experience

CSE100: Advanced Data Structures - Tutor for Christine Alvarado - Winter 2016 - Spring 2016

- Provided one-on-one personal assistance on programming assignments
- Designed instruction materials alongside TAs
- Graded assignments and exams