

# APPLICANT

## Organizations

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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
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Involved in planning of a Datathon at UCSD

## Tutoring Experience

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

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

## Technologies

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Services, GCM, JUnit

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

## Others

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Engineering

- Software

Experience:

Design Patterns, Design by Contract, Agile

Software Process, Jira, Git, Object Oriented

Design, TDD

(Hochdeutsch),

- Languages: Fluent in Spanish , Fluent in

Intermediate

German  
fluency in French

- Participant

in competitive programming:

LaHacks, HackSB and others.

## Education

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## Work Experience

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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.

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Implemented a recommendation engine for their discovery site using Collaborative Filtering in Spark

- Ported their webApp to a native desktop application using

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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.

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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

B.S in Computer Science, expected:June 2018