APPLICANT

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
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Involved in planning of a Datathon at UCSD

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

Technologies

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

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

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

B.S in Computer Science, expected:June 2018