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EDUCATION

University of California, San Diego — 3.7 GPA (B.S. Computer Science)

Graduating on **DEC 2017**

Pasadena City College, Pasadena — 3.7 GPA (A.A Mathematics)

Graduated on **May 2015**

EXPERIENCE

Data Science Intern

San Diego Supercomputer Center

July 2017 - Current

- Preprocessed and Analyzed real-time Geolocation data using python GDAL and pandas libraries.
- Implemented various feature extraction strategies to obtain important features from multiple Geolocation data such as designing kernel for convolution, parameter tuning and ensemble method.
- Designed and trained pipelines multiple machine learning model to be used in a real time web application
- Developed a REST API with python Flask framework for a real-time runtime prediction for a wildfire analysis

Intern

Cloudlanes

July 2017 - Sep 2017

- Tested and deployed Cloudlanes Backup Accelerator server to VMs on Azure, Google Cloud Platform and Digital Ocean
- Researched and configured a backup mechanism using Veeam on Windows server to backup data from on-prem to Azure blob storage through Cloudlane's backup accelerator server
- Collaborated with fellow interns in researching storage and cloud infrastructure of several UCSD department to gain insights on different Cloud technologies and application of backup accelerator technology

Computer Science Tutor

University of California, San Diego

Sep 2016 - Dec 2016

Course: CSE 103 - Probability and Statistics

Class size of 200+, Section size of 20+

- Assist students in learning foundational knowledge in statistics, such as counting, probabilities, inferential statistics.
- Facilitated additional instructional discussion hours for students alongside TA, helping students to have deeper understanding of materials

Computer Science Tutor

Pasadena City College

Feb 2014 - May 2015

Courses: C++ and Object Oriented Programming, and Data Structures

Class size of 30+

- Assist students to learn foundational knowledge in programming in C++ and various data structures.
- Planned and facilitated a supplemental instruction program for CS students with CS faculty instructors and tutors.

PROJECTS

Pintura - NodeJs GeoAPI App (2017)

NodeJs, Express, Leaflet

- Developed a mobile app that uses Leaflet.js GeoAPI to allow map based photo sharing application.
- Implemented client and server side functionality for the main functionality of the map page.
- Implemented persistent client session and user account of the application.

Mindlee - NodeJs Web App (2017)

NodeJs, Express

- Developed a mobile app that manages user stress level and notify user of their desired stress level.
- Designed a responsive front-end interface with w3 and Express API.

CoupleTones - Android GeoLocation (2016)

Java, Android, Firebase, JIRA

- Developed an app that tracks user's location and notifies users of their favorite location and proximity to the location
- Implemented the backend with Firebase and Google Messaging API to store locations and networking features

Knowledge Retaining Chatbot — AI (2015)

C++, Qt, SQLite

- Designed and implemented natural language processing toolkits such as lexical analysis, and parsing libraries in C++
- Implemented database to support the application with Qt framework and SQLite
- Designed a command line chat bot that can answer questions based on given facts during the conversation

Puzzle Solver — AI, Simulation (2015)

C++, Qt, OpenGL

- a N-dimensional sliding puzzle solver that uses A* graph search algorithm with customized heuristic method to find the most optimal path to solve board configurations and animate the resulting path.

SKILLS

Proficient:

Python •
C++ •

Familiar:

Java •
C •
JavaScript •
Assembly •
Bash •
Awk •
OCaml •
MATLAB •

Tools:

Git •
Vim •
Linux •
SQLite •
PostgreSQL •
Android •
Ant •
Firebase •
CircleCI •

Framework

Node.js + Express
Flask, Qt, Leaflet

AWARDS

Dean's Honor

(2013-2015)

Honors in

Mathematics (2015)

awarded by Pasadena
City College

Basic Certification

(2015) awarded by
National Tutoring
Association