Josh Fernandes

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EXPERIENCE

AV-8B Software Engineer

DCS Corp China Lake, CA June 2018-Current

• Assisted development on C# desktop application by creating new features, bug testing, and updating legacy code.

Budget Planner

Long Beach, CA

January 2018

- Created with Python/PyQt.
- User enters annual salary, and program calculates state taxes, federal taxes, and monthly income.
- Program also contains fields to input various expenses in order to calculate remainder to go into savings.

Hex Board Game

Long Beach, CA

October 2017

- Completed one version with Python/PyQt and then created a more interactive version with Angular.
- Angular version updates hex size, number of hexes, and orientation of the board in real time.
- Has the ability to create a shortest distance line between two clicked hexes.

NASA Independent Contractor

NASA JPL Pasadena, CA January 2014-June 2017

- I used the IDL programming language to filter images of Jupiter and characterize chemical properties of Jupiter's north and south pole.
- I was tasked with creating a program to incorporate amateur photography into the NASA database system. The project was completed ahead of schedule and has already saved hundreds of hours of man-power.
- I created a suite of code to automate the process of reducing images taken by ground-based infrared telescopes.

Scheffler Solar Concentrator Research

California Polytechnic San Luis Obispo, CA March 2012-June 2013

- I designed a Solidworks model of a thermal storage unit for a Scheffler solar concentrator, and also built a physical unit using materials available to third-world countries.
- I was responsible for the entire design, testing environment, and modifications based on the results from physical tests.

Number Database Website

San Luis Obispo, CA

Summer 2011

- Created website using Python/Flask as the backend and stores the data in JSON format.
- Website takes into account screen resolution and has a mobile version for various phones and OS versions.

COMPUTER SKILLS - (7 years experience)

Extensive knowledge and scientific programming experience in Python, IDL, LabView, R, & Fortran. Extensive knowledge and application development in C#,C++, Matlab, Xcode, & Java. Frontend web development in HTML5, PHP, Angular, Backbone, Bootstrap, jQuery, & Javascript. Backend web development in Flask, Django, MySQL, SQlite, JSON, Express, & Node Proficient programming skils in Mathematica, Excel, Linux, Mathcad, Solidworks, & Bash.

EDUCATION

CSU Long Beach, Long Beach, CA Master of Science, Physics, May 2017 G.P.A. 3.75/4.0