David Hernandez

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SKILLS

- **Programming Languages**: Java, HTML, CSS, JavaScript, C, SQL, Bash, Assembly, Objective-C, PHP
- **Version Control**: Git
- **Operating Systems**: Windows (7, Vista, 8,10), Unix
- **Office Tools**: MS Word/PowerPoint/ Access 2013
- **Bilingual**: English and Spanish

WORK RELATED EXPERIENCE

University of Central Florida
Orlando, FL

Aug-Dec 2013

Systems Software Semester Project
- Wrote a small P-machine and compiler that would generate code for said virtual machine.

University of Central Florida
Orlando, FL

Jan-May 2013

Database Systems Semester Project
- Created a small scale database that modeled that of Amazon.com.
- Reduced data redundancy and increased model efficiency using relational database design principles.
- Model design and validation using SQL and database scripts withing mySQL workbench.

University of Central Florida
Orlando, FL

Jan-May 2012

Operating Systems Semester Project
- Wrote a 5k line program in Cthat simulates an operating system.
- Supported OS features such as CPU and memory hardware, scheduling, etc.

University of Central Florida
Orlando, FL

2013-2014

Supervisor: Dr. C. David Cooper, P.E.

Environmental Engineering Combustion Research
- Built a Java application for a team of researchers at UCF that served as a virtual model of a real life combustion machine.
- Designed a simple and user-friendly interface that also used dynamic error checking.

- Decreased model testing time by allowing researchers to bypass a process of searching and modifying a 290+ page configuration file for every new run.
- Integrated a data modeling feature utilizing the JFreeChart library.
- Configured software to allow automatic input/output data storage in both textual and visual format to avoid research data loss.
› Tech used: Netbeans IDE, Java, GIMP

Personal Projects   **Jun 2015-Present**
<u>SleepTalk - Android Application</u>
- Coding an application with similar functionality to Android 5.0's "Do Not Disturb" feature which allows users to select what contacts can disturb them without the need to favorite them.
› Tech used: Android Studio, Android SDK, Git, Java, XML, Adobe Illustrator

Personal Projects   **Nov 2014**
<u>Calculator - Android Application</u>
- Built a scientific calculator that uses a modified version of a third part mathematical expression parser, CogPar, to serve as a formula calculator.
› Tech used: Android Studio, Android SDK, Git, Java, XML, Inkscape, GIMP

EDUCATION

Valencia College - A.S. Interactive Design   **Jan 2015-Present**
Orlando, FL

<u>Relevant Courses:</u> Web Essentials, Graphic Design Essentials, Information Architecture, Fundamentals of Typography

Oracle Certified Associate, Java SE7 Programmer 1   **Sep 2014**

University of Central Florida - B.S. Computer Science w/   **May 2014**
Minor in Mathematics
Orlando, FL

<u>Honors:</u> President's Roll, Dean's List

<u>Relevant Courses:</u> Object-Oriented Programming, Database Systems, Operating Systems, Programming Languages, Web Based Information Technology, Systems Software, Processes for Object Oriented Software Development