William Chavez | Software Engineer

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Education

Florida International University, **Miami, FL**
B.S (Computer Engineering), 3.56 GPA, Cum Laude *2010 - 2015*
Member of Tau Beta Pi honor society. Coursework includes: Data Structures (A), Programming III (A), Microcomputers I – II (A), Embedded. O.S. (A), Embedded GUI Programming (A), Ethical Hacking (A), Algorithm Techniques (A), Net-Centric Computing (A), Network Security (A)

Work Experience

Ultimate Software **Weston, FL**
Software Engineering Intern *February 2015–April 2015*
- Developed and provided software architecture decisions for Bacho, an internal testing automation program for UltiPro BackOffice that uses EmguCV and CodedUI.
- Tested and released new updates to Echo, an internal testing automation program for UltiPro.

Royal Caribbean Cruises Ltd. **Miramar, FL**
Java Developer Intern *November 2014–January 2015*
- Created enhancements and fixed defects for several web services in the existing code base.
- Tested and wrote JUnit tests for web service requests.
- Worked with frameworks and technologies such as J2EE, Spring, Maven, Tomcat, WebSphere eXtreme Scale, soapUI, and JUnit.

FIU Applied Research Center **Miami, FL**
TRMC Cyber Fellow *February 2014–November 2014*
- Created a C# application that registers location coordinates for user-drawn paths through the Bing Maps API.
- Created a C# net-centric application that works with the Test and Training Enabling Architecture (TENA) middleware & protocol provided by the department of defense.

Lockheed Martin - National Cyber Range **Orlando, FL**
Software Engineering Intern *June 2014–August 2014*
- Wrote bash & python scripts for the auto-configuration and auto-installation of open source software.
- Tested and installed programs that perform WAN Optimization and performance-enhancing proxies for satellite network diagrams.
- Leveraged open source and in-house tools to generate realistic web content.

Discovery Lab **Miami, FL**
Research Intern *November 2013–February 2014*
- Wrote an OpenCV program in C++ to track objects through color ratios, and created an extended robotic limb to follow those tracked objects.
- Implemented a complementary kalman kilter for the stabilization of movement on an accelerometer.

FIU Online **Miami, FL**
Course Developer *February 2012–November 2013*
- Worked closely with instructional designers and faculty to produce and maintain online courseware for internet deployment.
- Performed testing and quality assurance of the courses assigned.

PROJECTS

emVee: [C++, Java] Smart wallet that uses machine learning to identify the owner based on walking gait.

URL Word Search: [C#] Web scraper that either returns all identified URLs or a targeted word for a given homepage.

Emoji Wars: [C++, wxWidgets] An implementation of Conway's Game of Life with Emojis.

Malware Identification: [Bash] Conducted research on a collection of malware and identified static and dynamic properties.

ACHIEVEMENTS & EXTRACURRICULARS

LM Raspberry Pi Jam (Hack-a-thon), *1st Place* — *June 2014*

Dean's List — *Summer 2011, Spring 2013–Spring 2014*

ARTS (Applied Robotics Technology and Science) *Treasurer* — *Spring 2014*

SHPE (Society of Hispanic Professional Engineers) *Member* — *Fall 2013–Present*

ACM (Association for Computing Machinery) *Member* — *Fall 2011–Present*

IEEE (Institute of Electrical and Electronics Engineers) *Member* — *Spring 2012 - Fall 2014*

SKILLS

Programming Languages: Java, C#, C, C++, JavaScript, JQuery, Python, Bash, HTML5, CSS

IDE: Visual Studio, Eclipse, Netbeans, Xilinx

Frameworks: Spring, Maven, JUnit, NUnit, OpenCV, Selenium

Revision Control: Git, Apache SVN, Source Tree

Operating Systems: Mac OSX, Windows, Ubuntu, CentOS, Kali, Vyatta

Additional: Secret Security Clearance