

Samuel Villarreal

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EDUCATION

University of California, Riverside

Bachelor of Science, Computer Science

Major GPA 3.5

Expected June 2015

RELEVANT COURSEWORK

Software: Object-Oriented Programming, Algorithms and Data Structures, Operating Systems, Concurrent Programming and Parallel Systems, Database Management Systems, Introduction to Information Retrieval, Computer Security, Software Engineering, Compilers, Mobile Wireless Networks

Hardware: Logic Design, Embedded Systems, Design and Architecture of Computer Systems, Circuit Analysis

Theory: Discrete Structures, Combinatorics, Theory of Automata

WORK EXPERIENCE

Software Engineer Intern at Jet Propulsion Laboratory, Pasadena

June 2014 – September 2014

Working with Simulation and Support Equipment Division

- Assisting in evolution of C++ code base for future missions

Research Assistant at University of California, Riverside

January 2014 - March 2014

Worked with Dr. Zizhong (Jeffrey) Chen with interest in High Performance Computing

- Analysis of project in soft error correction in matrix multiplication using C

PROJECT EXPERIENCE

University of California, Riverside

Information Retrieval

April 2014-June 2014

Collect information from Twitter and make a simple search engine in Java

- Adapted Twitter streaming API and improved utilizing Multithreading
- Indexing using Lucene and displayed through web interface

Embedded Systems

June 2013

Created a game in C running on atmega32 displayed through a simple LED display (online)

- Planned and designed placement of components on breadboard
- Implemented logic for real time embedded system

Software Construction

December 2012

Implemented a simple Unix Shell in C++

- System programming including concurrency and signal handling

TECHNICAL SKILLS

Operating Systems: Windows, Linux(CentOS/Mint/Fedora)

Programming Languages: C++, C, HTML/CSS, PostgreSQL, Java, Python

Applications: Latex, Xilinx ISE, GitHub, Atmel Studio, Visual Studio, Geany, Vim, Eclipse

Natural Languages: Bilingual: Spanish and English

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers(IEEE), National Member

2013-Present

Association of Computing Machinery(ACM), Chapter Member

2013-Present