

# Samuel Villarreal

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## EDUCATION

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University of California, Riverside

Bachelor of Science, Computer Science

Major GPA 3.5

Expected June 2015

## RELEVANT COURSEWORK

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

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

**Theory:** Discrete Structures, Combinatorics, Theory of Automata

## WORK EXPERIENCE

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**Software Engineer Intern at Jet Propulsion Laboratory, Pasadena**

June 2014 – September 2014

Working with Simulation and Support Equipment Division

- Assisting in evolution of 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

## PROJECT EXPERIENCE

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University of California, Riverside

**Information Retrieval**

April 2014-June 2014

Collect information from Twitter and make a simple search engine

- 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

- System programming including concurrency and signal handling

## TECHNICAL SKILLS

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**Operating Systems:** Windows(Vista/XP/7/8.1), Linux(centOS/mint/fedora), OSX

**Programming Languages:** C++, C Assembly Language(MIPS, LC-3), 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

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

2013-Present

Association of Computing Machinery(ACM), Chapter Member

2013-Present