

# Samuel Villarreal

(562) 409-4688 | [svill017@ucr.edu](mailto:svill017@ucr.edu) | [www.samuelvillarreal.me](http://www.samuelvillarreal.me)  
<https://www.linkedin.com/in/samuelvillarreal>

## EDUCATION

---

University of California, Riverside  
Bachelor of Science, Computer Science June 2015  
Major GPA 3.5

## RELEVANT COURSEWORK

---

**Software:** Object-Oriented Programming, Algorithms and Data Structures, Operating Systems, Concurrent Programming and Parallel Systems, Database Management Systems, Information Retrieval, Computer Security, Software Engineering, Compilers, Mobile Wireless Networks, Computer 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  
Working 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  
**Senior Design: Software Engineering** April 2015 – June 2015  
Developed a high risk high reward android application in Java similar to Yik-Yak

- Team experience using sync-and-stabilize methodologies
- Responsible for location functionality using Google APIs and Quality Assurance

**Information Retrieval** April 2014 – June 2014  
Collected 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  
Designed a game in C running on atmega32 displayed through a simple LED display (online)

- Implemented logic for real time embedded system and project planning

## TECHNICAL SKILLS

---

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

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

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

**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