

EDUARDO RAMIREZ

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EDUCATION

University of California, San Diego: B.S. Computer Science (GPA: 3.24) Expected Grad: 2016

- Relevant Courses: Advanced Data Structures, Computer Organization and Systems Programming, Database Systems Principles, Software Engineering, Operating Systems, Design and Analysis Algorithms, Theory of Computation, and Introduction to Probability and Statistics

WORK EXPERIENCE

Aug 2013 – Present

Programmer at UCSD's Distributed Health Labs (Qualcomm Institute)

- Building the backend for mobile application "KEEP" to seamlessly integrate patient medical history and similar information with a medical database
- Present data intuitively based on various chosen analytics
- Implementing software using Python and its Django framework along with the MongoDB to store the information
- Creating the registration process for both patients and physicians
- Constructing the web GUI for KEEP
- Using Git to push/pull working implementations to/from the project repository

Sept 2013 – Present

Research Assistant at UCSD's Engineers for Exploration

- Working on the AUV Stingray Project under supervision of Dr. Ryan Kastner and PhD student Perry Naughton
- Using the Robot Operating System framework implemented in C++ and Python
- Creating algorithms for stabilizing the Stingray by using a PID controller that continuously reads data from different sensors allowing the robot to maneuver when submerged in water
- Synchronizing various sensors in order to receive uniform readings to map the Stingray in three dimensional space

Sept 2013 – Present

Computing Consultant at UCSD's Academic Computing and Media Services/ ResNet

- Troubleshoot TCP/IP and network troubleshooting
- Resolve complex student account issues
- Develop methods for removing the latest malware infecting computers

June 2013 – Aug 2013

Tutor at UCSD's Computer Science and Engineering Department

- Tutored students in data structures and object oriented design in Java
- Helped student understand complexity, generics, and debugging of code
- Responded to student questions on Piazza forum

June 2013 – Sept 2013

System Administrator at UCSD's Office of Research Affairs

- Managed OUs in UCSD Active Directory
- Maintained servers remotely running Windows Server
- Designed and implemented software to address a variety of tasks
- Upgraded system components, including memory, hard disks, video cards, etc.