

# Ryan Miyamoto

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**Objective:** Seeking a stimulating, yet challenging position in the computer science or web development industry with a foundation in creativity and design as well as utilization of essential concepts and systems in a social and dedicated environment.

## Education

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### Bachelors of Science: Computer Science

University of California, San Diego  
Expected Graduation: December 2016

#### Relevant Courses

- Fluency in Information Technology
- Basic Data Structures, Object Oriented Design
- Software Tools and Techniques
- Principles of Computer Operating Systems
- Mathematics for Algorithms and Systems
- Software Engineering
- Computer Organization and Systems Programming
- Digital Systems
- Computer Architecture
- Advanced Data Structures
- Advanced Algorithms - Discrete and Continuous Optimization

#### Sponsored Programming Competitions

- Wrote Java code from scratch, debugged existing programs and designed more efficient and logical algorithms.

## Profile

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- **Technologies:** MS Word, PowerPoint, Excel, PHP MyAdmin, Adobe Photoshop, SharePoint CMS, Joomla 1.x, 3.x, vim
  - **Operating Systems:** Windows, Linux
  - **Programming Languages:** Java, MATLAB, HTML, CSS, C++, Verilog, SPARC, C

## Work Experience

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### Web Developer and Assistant Content Manager (February 2015 - current)

#### *UCSD Department of Psychiatry*

- Created live websites from scratch using HTML/CSS and published them using the Joomla Web Content Management System (<http://cmcr.ucsd.edu/>).
- Each website must be visually appealing for visitors, but also scalable and user-friendly in the back-end for future developers.
- Managed, modified, and transferred data between the department's subsites using the Sharepoint CMS.
- Responsible for finding, analyzing and debugging various technical errors throughout the UCSD Psychiatry site.
- Studied the use of the client-server model and the use of a FTP to transfer files via TCP networks onto a public server for anonymous peer reviewing.

## Accomplishments, Projects and Experience

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### Unicalc Interpreter and Evaluator (Calculator)

#### *Key Developer*

- Co-developed a quantity and unit calculator that analyzes raw input, tokenizes individual unit strings and performs conversions based on a database of standard metric units.
- Wrote the code responsible for the arithmetic calculation of quantity conversion and the manipulation of units.
- Worked with a partner to code a simulated abstract syntax tree that evaluated each token of input.
- Author of the multiple JUnit testing classes that verified the proper functionality and syntax as well as edge cases that may have cause algorithmic or logical failure.

### Software Engineering Application

#### *Quality Assurance Engineer*

- Responsible for overseeing the release of quality, bug-free software at each iteration as well as ensuring product marketability and customer satisfaction.
- Clients who use the application are able to sign up for retail accounts, login, add, delete and bundle services together, view online bills and cancel their accounts. More services may be added in the future.
- Designed test cases using Karma for JavaScript as well as manually testing the functionality of each module.