

# Ronald Adrian Arnanjaya

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## Education

University of California, Berkeley

**B.A Computer Science**

Berkeley, CA

Expected May 2016

## Projects

- **Pacman Artificial Intelligence** February 2015– Present  
Implemented Pacman AI agent using optimization of variety search algorithms and probability approximation
- **Jumping Crab Game (IOS)** August 2014 – Present  
Developed 2D mobile game with funny graphic and responsive physics using SpriteKit framework, also integrated with GameCenter
- **Cal Free Food Website (Cal-free-food.herokuapp.com)** 2014 – Present  
Generated and showed list of event with free food in Cal using python Google api and flash
- **15 puzzle solver using Hadoop and Spark MapReduce** October 2014  
Used Apache Spark and Amazon EC2 service to solve the 15puzzle in parallel over 12 instances.
- **Autostereogram & Visual Dereferencer** November 2014  
Generated a depth map of 2 images by comparing the Euclidean distance between 2 similar feature, converted it to quadtree, and generated the random dot autostereogram image
- **Twitter Trend Project** November 2014  
Python based program that shows the trend of twitter post feeling around US.
- **Super Alphabet Game** November 2013 – December 2013  
Developed an alphabet learning game for 1<sup>st</sup> grade student using java Swing GUI package

## Experiences, Leaderships, & Volunteers

- **Volunteer on 4<sup>th</sup> CIO Scholarship Fund Annual Golf tournament Fundraising** 2013 – Present  
Actively involved in organizing and facilitating IT leader Donors and Ambassadors in Silicon Valley
- **Vice President of International Club**, Ohlone College January 2014 – August 2014  
Organized student activity such as welcome day, picnic and farewell party to help student to overcome culture shock and do well in college
- **Computer Lab Tutor**, Ohlone College January 2013 – January 2014
  - Helped and assisted diverse student to solve question and error in coding lab and homework
  - Modified src2tex (translate any source code to latex format) source code to display the source of error in code
  - Modified Fltk-Fluid user interface for better usability for student and professor
  - Created a digital application form for Respiratory Therapist Department of Ohlone College
- **Representative at Large of International Club**, Ohlone College August 2013 – December 2013
  - Planned and supported club decision while maintaining the importance of member benefit

## Skills

- Proficient in C, C++, Objective-C, Python, Assembly Language, Intel Intrinsic and Java
- Literate Programming using LaTeX (also plain Tex), Data Structure, FLTK-Fluid (C++ GUI software), Combined program and latex using Nuweb system, basic SQL, basic ruby on rails, Scheme
- Suitable with Adobe Photoshop, Premiere CC, Corel draw, Pinnacle Studio, iMovie, Microsoft office Word, PowerPoint, Excel, Macromedia Dreamweaver, Xcode, Windows, Mac, Unix

## Achievements& Honors

- 2014 Ohlone College Stephen E. Epler Leadership Scholarship recipient
- 2013 Member of Phi Theta Kappa National Honor Society
- 2011 First place of 50 on ITSmart Robotic Olympiad (Statewide competition)
- 2011 First place of 70 on Petra Parade Robotic Competition (Statewide Competition)