# JASON OU

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## EDUCATION

**University of California, Santa Cruz**
Bachelor of Science, Computer Science                           Expected graduation: June 2017            **GPA: 3.15**

**Relevant Coursework:**

| | | |
|---|---|---|
| C++ Advanced Programming | Data Programming and Visualization (D3) | Algorithms and Abstract Data Types |
| Computer Systems and Assembly Language | Introduction to Data Structures | Discrete Math |
| Linear Algebra | Multivariable Calculus | Intro to Programming (Accel) Java |

## SKILLS

**Technical:** Java, JavaScript, HTML5, CSS3, C++, Python, D3, Bootstrap, Assembly Language
**Familiar With:** C, Ruby on Rails, Ruby, Android Development, Ruby, PHP, PostgreSQL, Photoshop
**Currently Learning:** C++, Python, JavaScript, Django, AngularJS, Ionic
**Development Tools:** Git, UNIX/LINUX, Command Line, PuTTy, Notepad++, Android Studio, Brackets, Oracle VM, Wamp

## EXPERIENCE

**Cal Hacks** UC Berkeley – Lead Programmer                                                          *Oct.2.2014 – Oct.5.2014*
- Built a foundation for a service to create personalized greeting cards online and sends a physical copy of the card to the recipient
- Utilized Stripe payment API and SendGrid mailing API
- Taught team members the basics of Ruby on Rails and MVC architecture

**Hack UCSC** UC Santa Cruz – Lead Programmer                                                     *Jan.9.2015 – Jan.11.2015*
- Built a prototype app that serves as a reference for users to establish an agricultural farm in their backyard
- Taught team members the basics of Android Development

**Education Data Mining Using Alice** UC Santa Cruz – Researcher                             *Apr.30.2015 – Present*
- Certified by The National Institute of Health Office of Extramural Research for "Protecting Human Research Participants"
- Using computer logging data for informing research and as a tool development in education

## PROJECTS

**Shell** C++                                                                                                          *Apr.12.2015*
- A shell implementation where it reads in commands that modifies an inode tree, where each inode is either a file or a directory
- Similar to a SSH, it can register the commands, cd, ls, rm, and etc.

**Lettergram** Ruby on Rails                                                                                        *Oct.5.2014*
- Web app used to create personalized greeting cards online and sends a physical copy to the user through mail
- Utilizes Stripe payment API and SendGrid mailing API

**Farmable** Android Development                                                                                   *Jan.11.2015*
- Android app that serves as a reference for users to establish an agricultural farm in their backyard

**Time Tracker** Ruby on Rails                                                                                      *Sept.21.2014*
- Web app used to keep track of companies, projects, and hours their members have completed

**Choose Your Own Adventure Game** Java                                                                           *Dec.9.14*
- Java, text based game made using ADTs
- Reads in a text file and using a series of multiple data structures, the program simulates an in line adventure game
- Adventure game is able to keep track of the different options, allowing the user to undo a move, start over, and etc.

**A Thousand Nights in Vegas** D3, HTML5, CSS3, JavaScript                                            *Mar.19.2015*
- Web Visualization/Simulation of popular casino games such as Blackjack, Roulette, Craps, and Baccarat
- Has differing algorithms depending on the game and the strategy of the game
- Each algorithm produces a different visualization/graph
- Uses D3.js to create and manipulate data graphs

## EXTRA-CURRICULAR

**Society of Asian Scientists and Engineers** Web Master                                             *2014 – Present*
**National Society of Black Engineers** member                                                       *2014 – Present*
**Association for Computing Machinery** member                                                       *2014 – Present*
**Multicultural Engineering Program** member                                                         *2014 – Present*