

# 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  
Computer Systems and Assembly Language  
Linear Algebra

Data Programming and Visualization (D3)  
Introduction to Data Structures  
Multivariable Calculus

Algorithms and Abstract Data Types  
Discrete Math  
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 – Research Assistant

*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*