

Henry Doan

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Education: University of California, Riverside | Computer Science (Expected Graduation Year: 2018)

- Graduate of SMASH (Summer Math and Science Honors) Academy Summer 2013
- Association for Computing Machinery at UCR | Program Coordinator Fall 2015 – Spring 2016
- Association for Computing Machinery at UCR | Professional Development Winter 2016 - Present
- Citrus Hack | Volunteer Coordinator Fall 2016
- Relevant Coursework:
 - Introduction to Software Construction
 - Introduction to Data Structures and Algorithms
 - Discrete Structures
 - Introduction to Machine Organization & Assembly Language Program Lab
 - Applied Linear Algebra

Skills:

- Languages: C++, HTML/CSS, LaTeX
- IDE/Editor: Cloud9, VIM, Emacs
- Familiar with Ubuntu, Centos, Windows
- Libraries: LAMP Stack
- Tools: GDB, Bash Scripting, Git, SSH, Agile

Projects:

Mailbox Notifier | Citrus Hack

November 2015

- Designed initial project concept and developed hardware design
- Helped implement hardware, develop notification webpage, and implement the notification logging
- Users were able to insert mail into the mailbox and were promptly notified of mail delivery via a webpage
- Implemented using an Arduino Uno and plug-in accessories
- Helped implement and test the Arduino code

Class Insights | SB Hacks

April 2016

- Web Application that allows users to post in a forum like environment about their university classes
- Designed the database concept and user interface concept
- Handled back end development such as setting up server and PHP logic
- Implemented using the LAMP stack
- Coordinated team members and designated workload among roles

RSA Data Cryptography | LA Hacks

May 2016

- Implemented user defined RSA algorithm as a hash function
- Attempted to implement a hash table
- Designed to be used for password encryption and decryption
- Struggled with providing enough memory to run algorithm

Bash Scripts

November 2016

- Created a collection of shell scripts to optimize workflow
- Consists of file and makefile generators
- Allows for quicker usage of SSH and Git