

# JEFFREY HUANG

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## EDUCATION

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### University of Illinois at Urbana Champaign

Bachelors of Science Computer Engineering 2017

Taken: CS 225 Data Structures (A+), ECE 391 Computer Systems (A)

GPA: 3.13

## EMPLOYMENT

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VMware, *MTS - Intern*, Palo Alto, CA

Jun 2015

Quicket Solutions, *Part time Software Engineer*, Champaign, IL

Feb 2015 - May 2015

- Developed a front end search feature in javascript
- Developed a custom revision control system in javascript and python (client/server)
- Numerous changes to the code base, generalized and rewrote multiple sections to scale

University of Illinois at Urbana Champaign, *Undergraduate Lab Assistant*, Champaign IL

Jan 2015 - May 2015

- Lab Assistant and Grader for ECE 220, an introduction to programming and computer systems class

## PROJECTS

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### Seg\_Fault OS

- Developed a barebones Linux inspired OS over the span of a month in a team of 4 written in C and x86
- Included paging, read only file system parsing, signals, ran user level code in ring 3, RTC / Keyboard / PIT drivers, scheduler implemented using round robin, 15 system calls, and supported multiple virtual shells.
- Went further and implemented several extra credit features including sound blaster 16 and DMA driver, mouse driver, signals, terminal colors, virtualized RTC, terminal history, advanced VGA features (mode 13h), malloc, non-persistent writable file system, and ran our OS on real hardware (old ASUS EEE PC)
- Won 2nd place in the ECE 391 OS Design Competition

### Image Based Navigation System

- Research Project trying to see if it was possible to use a camera and image matching algorithms to guide a UAV when gps and other sensors fail
- Developed the method and wrote the code for storing large images in physical storage using a QuadTree structure by splitting the images into smaller 100x100 images and restoring sections of the image as needed.
- Won best poster in the PURE program

### SafeWalks (iOS)

- Developed a mobile application in a team of two for the police department at UIUC
- Intended as a front end for the school's SafeWalks program and allowed students to easily send a request to the police department

## AWARDS

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OS Design Competition ~ 2nd Place, *Sponsored by Microsoft*

May 2015

- Won second place among ~40 other operating systems in ECE 391, see Seg Fault OS under projects

Best Research Poster, *PURE*

Apr 2015

- Awarded best poster for the Image Based Navigation System project among a group of ~25 undergraduate teams, see Image Based Navigation System under projects

Memory Lane ~ VandyHacks 2015 Sponsor Prize, *Digital Reasoning*

Mar 2015

- Memory lane is an application that was developed at a hackathon at Vanderbilt that is intended to help you learn a language in a new way that is fun and effortless.

## ACTIVITIES

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ECE Pulse, *Webmaster*

May 2015 - Current

## SKILLS

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**PROGRAMMING:** C, C++, x86, JavaScript, ObjC, Ruby, Python

**FRAMEWORKS AND TOOLS:** GDB, Vim, Rails, Web2Py, Cocoa Touch and iOS SDK, LLDB

I can GDB my way out of anything