**JEFFREY HUANG**

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**EDUCATION**

**College of Engineering, University of Illinois at Urbana Champaign|Illinois Graduation Date:** **May 2017**

Bachelor of Science, Computer Engineering GPA: 3.13 | Major GPA 3.1

*Coursework:* Data Structures (A+), Computer Systems Engineering (A), Computer Systems and Programming (A-)

*Honors:* Microsoft OS Design Competition (2nd Place – Seg Fault OS), Best Undergraduate Research Poster (1st Place – Image Based Navigation System), VandyHacks Digital Reasoning Sponsor Prize – Memory Lane Web Application

**WORK EXPERIENCE**

**VMware** Palo Alto, CA

*Software Engineering Intern – Hybrid Cloud Services* *Jun 2015 – Aug 2015*

* Developed an automated VM monitoring solution using Nagios; achieved consistent uptime among PODs
* Automated creation of configuration files by developing Python scripts using Presto APIs
* Created automated deployment solution using Puppet to enable remote deployment of VM monitoring solution

**Quicket Solutions** Champaign, IL

*Software Engineer – Quicket Web Application Feb 2015 – May 2015*

* Designed a front end search feature in javascript with a custom revision control system in javascript and python
* Developed and implemented changes to the code base, generalized and rewrote numerous sections to scal**e**

**RELEVANT PROJECTS & ACTIVITIES**

**Seg\_Fault OS** Champaign, IL

*Kernel Programmer – Microsoft OS Design Competition* *Mar 2015 – May 2015*

* Designed Seg\_Fault to win 2nd place in the ECE 391 OS Design competition amongst ~160 engineers
* Developed the barebones Linux inspired OS in C and x86; included paging, read only file system parsing, signals
* Executed user code in ring 3, RTC/Keyboard/PIT drivers, process scheduler, system calls, virtual shells
* Implemented extra credit features including sound blaster 16/DMA/mouse drivers, signals, terminal colors, RTC virtualization, advanced VGA features (mode 13h), malloc, non-persistent writable file system
* Ran with no major modification Seg\_Fault OS on physical hardware (old ASUS EEE PC)

**Image Based Navigation System** Champaign, IL

*Research Programmer* *Feb 2015 – Apr 2015*

* Won best poster in the PURE program of undergraduate research amongst ~50 engineering students
* Researched the possibility of camera usage & image matching algorithms to guide UAVs when other sensors fail
* Developed the method to enable the storage of large images in physical storage using a QuadTree structure

**SafeWalks (iOS)** Champaign, IL

*Lead iOS Developer* *Jan 2015 – Mar 2015*

* Developed a feature – rich mobile application in a team of two for the police department at UIUC
* Executed the project on a campus – wide scale as a front end for the school's SafeWalks program; enabled convenient request placement by students with simultaneous information storage and accuracy for the police

**SKILLS & INTERESTS**

*Technical Skills:* C, C++, x86, JavaScript, ObjC, Ruby, Python, ECE Pulse Webmaster

*Frameworks & Tools*: GDB, Vim, Rails, Web2Py, Cocoa Touch and iOS SDK, LLDB