

# JEFFREY HUANG

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## EDUCATION

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### University of Illinois at Urbana Champaign

Bachelors Computer Engineering 2017

Courses taken/in progress: ECE 411, ECE 391, CS225

GPA: 3.03

## EMPLOYMENT

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

Feb 2015 - Current

- Full Stack Developer (HTML, CSS, JS, Python)
- Developed multiple unique features such as a custom search bar implementation and auto complete in forms

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

Jan 2015 - Current

- Hold office hours and lab sections for ECE 220 (Old ECE 190)

### University of Illinois at Urbana Champaign, *Undergraduate Web Developer*, Champaign, IL

May 2014 - Jan 2015

- Redesigned a fundamental introductory course website for the department of ECE at UIUC
- Created the entire website codebase from scratch, wrote and maintained both front end and back end code singlehandedly
- Created a simple way of generating course notes and examples using an XML parser written in both javascript and PHP that generated the appropriate set of notes and examples by the users request
- <https://courses.engr.illinois.edu/ece110/>

## PROJECTS

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### Seg\_Fault OS

- Developed a bare boned OS from almost nothing in a team of four
- Features included: Read only file system, user level code execution (up to 32 processes), scheduling using the PIT, paging, 11 system calls, RTC/Keyboard drivers, virtual terminals (up to 4)

### Visual Guide (Research)

- Conducted research under Fardin Abdi and developed a way of navigating a UAV using an embedded camera and computer vision algorithms
- Implemented an algorithm of storing extremely large satellite images (10000x10000 or larger) in physical storage in an efficient and elegant way using quadtrees
- End goal was to send camera images through an edge detection algorithm, find a smaller image from the satellite image stored in physical storage, and then match the region using OpenCV to extract the coordinates

### 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

### Fibonacci Heap Priority Queue (C++)

- Developed a priority queue using a fibonacci heap
- Got almost amortized constant time for most operations

## AWARDS

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### 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.

## SKILLS

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**PROGRAMMING:** C, C++, x86, Python, Ruby, Obj-C

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

I can GDB my way out of any situation