

EDUCATION

University of Illinois -- Urbana Champaign

August 2013 – Present

Pursuing B.S. in Computer Science; Expected Graduation in 2017

- CS Classes : Completed – Data Structures, Discrete Structures, System Programming
In Progress – Computer Architecture, Algorithms & Models of Computation, Virtual Reality

Awarded **Engineering Deans List** – Spring 2014, Fall 2013

Awarded **Engineering James Scholar** - Since start of Freshman Year

WORK EXPERIENCE

HSBC [Mumbai]

Summer 2012

Interned with IT and Trading at HSBC Securities and Capital Markets (India) Pvt. Ltd.

- Re-architected trading algorithms used to process customer requests and uploading order instructions.
- These algorithms were improved for higher efficiency and now execute 90% faster than previous versions.
- Added Futures & Options functionality to programs which previously only processed Equities.
- Automated multiple daily functions that previously took multiple cumulative hours of employee time.
- All projects are live and are used by HSBC Mumbai on a daily basis.

Applied Technologies for Learning in the Arts and Sciences at UIUC

Fall 2013

Front-end web developer

- Assisted in designing and development of websites for new academic programs at the university.
- Performed maintenance on and helped update several live sites.
- Maintained communication with the clients of websites that were assigned to me.

CAMPUS INVOLVEMENT

Course Assistant for CS 196

Fall 2014 - Present

CS 196 is a reimagined honors section for CS 125 – Introduction to Computer Science

- Member of a team that is assisting, guiding, mentoring ~ 180 new computer science students.
- Directly responsible for 10 students as they form teams and develop software as part of the course.
- Directing new members of course staff through their first semesters teaching.
- Conducting micro-lectures on Data Structures and Programming principles.

Webmaster for Society of Physics Students at Illinois

Fall 2014 - Present

SPS @ Illinois is a student organization for students interested in physics

- Completely redesigned the SPS@Illinois website, and set up mail and list-servers for officers.
- Involved in contacting and coordinating with members regarding group activities.

Association of Computing Machinery at Illinois & Hack Illinois

Summer 2014 - Present

The UIUC branch of the Association of Computing Machinery (ACM)

- Active member and collaborator in SIGART (group for artificial intelligence).
- Member of staff for Hack Illinois 2015.

CURRENT PROJECTS

- World Chat** – **Android**, **iOS**, and **Web** apps that use IBM's Bluemix platform to translate messages into a user's native language. For example, a user that only speaks language A can chat with another user that speaks only language B by allowing our service to translate in the background.
- 241Beats** – Android app built using the **Android NDK** that synchronizes music playback across multiple connected devices.
- Last layer** – An **n - factor authentication** scheme for RFID / proximity access locks. The program is built to run on a Raspberry Pi and is designed to fit into existing locks.
- Cellular Lock** – Basic **distributed system** implementation that uses **SMS** to communicate between nodes.

COMPUTER PROGRAMMING

Comfortable Developing with
Familiar with

C++ C Java Objective C Python Visual Basic JavaScript
MySQL Ruby node.js Flask

Misc. – hackathons attended

Hack Illinois (Sp14) MHacks IV (Fa14) Boilermake (Fa14) WildHacks (Fa14)