

# Abhishek K Modi

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## EDUCATION

University of Illinois at Urbana –  
Champaign

Pursuing B.S. Computer Science.  
Expected May 2017

Dean's List – Fa 2013, Sp 2014

### Coursework

Virtual Reality  
Computational Photography  
Machine Learning  
Natural Language Processing  
Algorithms & Models of Computation  
Theory II (Advanced Algorithms)  
Data Structures  
Systems Programming

### Skills

#### Comfortable Using

C++	C#	Swift	Java
Objective C		JavaScript	
Python		Ruby	

#### Familiar With

OpenCV	Rails
Flask	Matlab
Unity	SQL

### Misc. Links

#### CrackMIT

[github.com/MAKE-UIUC/CrackMIT](https://github.com/MAKE-UIUC/CrackMIT)  
Cracking the HackMIT Entry Challenge.

#### CS 196 – 25

[courses.engr.illinois.edu/cs19625/](http://courses.engr.illinois.edu/cs19625/)  
The largest CS Honors course at UIUC

#### SIGVRST

[www-s.acm.illinois.edu/sigvrst/](http://www-s.acm.illinois.edu/sigvrst/)  
The VR Student Organization at UIUC.

## EXPERIENCE

### Researcher under David Forsyth

Summer 2015 - present

Building a system that helps users avoid obstacles around them while wearing a VR headset. Co-authored upcoming papers at CHI and UIST.

### Researcher under Steven LaValle

Summer 2015 - present

Researching second language acquisition within experiences in Virtual Reality and building quickly deployable prototypes for this purpose.

### Course Instructor for CS 196

Fall 2015 - present

Instructor of a class taken by 200 CS freshmen every semester, and directing a course staff of over 30 undergraduate course assistants.

### Teaching Assistant for CS 498SL

Fall 2015 - present

Teaching assistant for the first Virtual Reality class at UIUC. Developing assignments and course content for a new class.

## PROJECTS

### Streampoint

[github.com/MAKE-UIUC/MHacks-VI](https://github.com/MAKE-UIUC/MHacks-VI)

A solution to help deliver impromptu presentations. Streampoint listens to what is being saying at a presentation to dynamically generate relevant projector slides.  
*Built Using:* Swift, Objective C, Python, JavaScript.

### QuickMed

[github.com/MAKE-UIUC/BHChi15](https://github.com/MAKE-UIUC/BHChi15)

QuickMed aims to address the void of an aggregated repository of accurate and updated availability of medications in pharmacies around you.  
*Built Using:* Swift, Objective C, Python, JavaScript.

### Left 4 VR

[github.com/wchill/Left4VR](https://github.com/wchill/Left4VR)

A gaming peripheral for the Oculus Rift designed for FPS games. It involves a Nerf Gun and a glove to track the user's position and mirror it in the game.  
*Built Using:* Python, SourceMod, C.

### Devaform

[github.com/modi95/devaform](https://github.com/modi95/devaform)

A web app that simplifies setting up various popular developer environments into a single terminal command  
*Built Using:* Ruby on Rails, JavaScript.

## CAMPUS INVOLVEMENT

### Chair of SIGVRST at ACM

Chair for the Virtual Reality Student Organization on campus.

### Illini Hackers

Active Notable personal achievements at hackathons:  
MHacks VI: LinkedIn + Stream Prizes | MHacks V: Finalist  
BoilerMake 2014: Twilio Prize | WildHacks: IBM Prize