

# Abhishek K Modi

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## EDUCATION

[University of Illinois at Urbana – Champaign](#)

Pursuing B.S. Computer Science.  
Expected graduation: May 2017

Dean's List – Fa 2013, Sp 2014.  
Course Instructor for CS 196.

### Coursework

Social Visualization  
Security  
Computational Photography  
Applied Machine Learning  
Natural Language Processing  
Algorithms & Models of Computation  
Theory II (Advanced Algorithms)  
Systems Programming

### Skills

#### Comfortable Using

C C++ C# R Swift  
Java Objective C JavaScript  
Python Ruby Haskell SQL

#### Familiar With

OpenCV TensorFlow  
Flask Matlab  
Unity Scikit Learn

### 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

### Google

Summer 2016

Intern on the Google Now Knowledge Engine team. Working on reducing load on servers while simultaneously improving the freshness of served information. Also working on improving the framework to create experiments.

### Vision Lab at UIUC

Summer 2015 - present

Research Assistant for David Forsyth. Worked on a system that helps users avoid obstacles while wearing a VR headset. Also worked on a system to reduce eye strain caused by VR headsets. Co-authored upcoming papers at 3DUI and CHI.

### Motion Strategy Lab at UIUC

Summer 2015

Researched skill acquisition through Virtual Reality experiences and building quickly deployable prototype experiences for Virtual Reality.

### Course Instructor for CS 196 at UIUC

Fall 2015, Spring 2016

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

## 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 said at a presentation to dynamically generate relevant presentation slides.  
*Built Using:* Swift, Objective C, Python, JavaScript.

### Song Genre Detection

[github.com/acm-nonsense/audio-matching](https://github.com/acm-nonsense/audio-matching)

A novel method of learning to identify the genre of a song. Done by extracting important features and structures of the music presented.  
*Built Using:* Python, TensorFlow, OpenCV.

### Un-Incognito

[github.com/acm-nonsense/Un-incognito](https://github.com/acm-nonsense/Un-incognito)

Certain websites will not serve content to browsers in incognito mode. Un-Incognito attempts to make it impossible for websites to detect incognito mode.  
*Built Using:* Swift, Objective C, Python, JavaScript, CSS.

### Left 4 VR

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

A First Person Shooter gaming peripheral designed for the Oculus Rift. 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.

## CAMPUS INVOLVEMENT

### Chair of SIGVRST at ACM

Chair for the ACM Virtual Reality Student Organization on campus.

### Illini Hackers

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

Last Update: 20 Jun 2016