

# Ritvik Upadhyaya

University of Wisconsin, Madison - Class of 2017  
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## EDUCATION

### UNIVERSITY OF WISCONSIN

Madison, WI

Graduated December 2016

Majors:

- Computer Science
- Mathematics

### DELHI PUBLIC SCHOOL

Bhopal, India

Grad. May 2013

## SELECTED COURSEWORK

### COMPUTER SCIENCE

Data structures, Computer Engineering, Algorithm, Digital System Fundamentals, Machine Organization and Programming, Operating Systems, Artificial Intelligence, Cryptography, Computer Networks, Introduction to Software Engineering.

### MATHEMATICS

Calculus I-III, Discrete Math, Linear Algebra and Differential Equations, Theory of Probability, Combinatorics, Analysis I, Linear Programming.

## LINKS

Github:// [ritvikupadhyaya](#)  
Devpost:// [ritvikupadhyaya](#)  
LinkedIn:// [ritvikupadhyaya](#)  
Quora:// [Ritvik-Upadhyaya-1](#)  
Medium:// [@ritvikupadhyaya](#)

## PROGRAMMING SKILLS

Java (Sun Microsystem Certified) • Swift • Objective C • Javascript (Node.js) • C • Git/SVN • Python • Bash • HTML/CSS •  $\text{\LaTeX}$  • Markdown • Matlab • RESTful API • Android SDK (Including Google Glass Dev) • SQL (MongoDB, MySQL) • Assembly

## HACKATHONS ATTENDED

HackMIT(x4) • HackTech(Caltech) • HackIllinois • Facebook Midwest Hackathon(University of Illinois, Urbana) • Microsoft Hackathon(University of Wisconsin, Madison) • WildHacks(Northwestern) • BoilerMake(Purdue University)

## EXPERIENCE

### EF EDUCATION FIRST | Mobile Development Intern

May 2016 - July 2016 | Cambridge, MA

Part of a 4 member team in the Go Ahead Tours division of EF working on a tour companion iOS app in Swift and Objective-C. The app has an active user base of ~1000 people, in 43 countries.

- Responsibilities included updating UI, enhancing app architecture, and maintaining Node.js backend.
- Implemented a native in-app messaging platform with MongoDB.
- Designing and implementing postcard tool to allow users to design and send postcards worldwide using LOB API.
- Refactoring code to fix memory leaks, and optimizing the app performance.

Worked with *Core Data*, *Auto Layout*, *Size Classes*, *Core Animations*, *MongoDB*, *CocoaPods*, *Google Analytics*

### CHEERS UNIVERSITY | Lead iOS Developer & UX Designer

Jan 2015 - Aug 2015 | Madison, WI

An anonymous photo sharing social networking app.

- Lead the design and implementation process for both iOS and android versions.
- Completed the entire integration of Camera (video and still).

- Custom Java backend interaction in Objective-C.

Worked with *UIKit*, *AVFoundation*, *Quartzcore*, *Security (iOS)*, *Flurry analytics api*, etc.

### UNIVERSITY OF WISCONSIN HOUSING | House Fellow

Current Position | Madison, WI

Working as a Resident Assistant in the Residence Hall at UW Madison.

Tasked with the work to enforce housing policies, while building an inclusive and safe community that helps residents be successful and caring individuals.

The additional responsibilities include but are not limited to organizing events, managing hall finances, and conflict resolution.

Skills used frequently involved *critical thinking in high risk situations*, *teamwork (staff, police, etc.)*, *conflict resolution*, *leadership*, *public speaking*, *being a visible role model*.

## PROJECTS

### OFF GRID | iOS

An iOS app that creates a local secure cloud without the internet for upto 8 devices to convert a large photo to B&W instantly.

It is a proof of concept app with many use cases like high definition frame rendering, mathematical computations and photo manipulations.

This app lets users share parallel computing resources between other iOS devices to perform complex tasks in real time almost instantaneously.

Selected for Apple's WWDC 2016 Scholarship Apps.

### WATCH ME TALK | Google Glass/Android

Taking in the voice from the surroundings and convert them to text in real time and displaying it on the Google Glass to help audibly impaired people never feel out of a conversation.

Featured in *Deaf TV South Africa*, The Complete Guide to Using Google in Libraries: A book by Carol Smallwood.

### GEEKEYBOARD | Wildhacks 2014

Top 10 at WildHacks for iOS keyboard which uses binary input.

### THERENOD | HackMIT 2014

Won Nod Ring sponsor prize for making a Nod controlled Theremin player for iPhone at HackMIT 2014.

## AWARDS

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|---------|--|
| 2016    | Student Scholar - Apple Worldwide Developer Conference |
| 2014    | Selected by Google for Giving Through Glass            |
| 2012-13 | Discipline Prefect Delhi Public School 2012-13         |
| 2010-13 | Sports Authority of India Scholarship for Swimming     |

## EXTRACURRICULARS

- Coordinator (Admin) for MadHacks 2015 & 2016 – UW Madison's 1st hackathon.
- Member of UPL (CS club at UW Madison).
- Represented states at 5 different national swim meet