

# Ismail Mustafa

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## EDUCATION

### NEW YORK UNIVERSITY

#### MSC IN COMPUTER SCIENCE

Expected Dec. 2016 | New York, NY  
Cum. GPA: 3.49

### COLUMBIA UNIVERSITY

#### BS IN MECHANICAL ENGINEERING

#### MINOR IN COMPUTER SCIENCE

Sept. 2012 - May 2014 | New York, NY  
Cum. GPA: 3.543

### JUNIATA COLLEGE

#### BS, cum laude, ENG. PHYSICS

Aug 2009 - May 2012 | Huntingdon, PA  
Cum. GPA: 3.629

## LINKS

Website:// [ismailmustafa.com](http://ismailmustafa.com)  
Github:// [ismailmustafa](https://github.com/ismailmustafa)  
LinkedIn:// [ijmustafa](https://www.linkedin.com/in/ijmustafa)  
Twitter:// [@ijmustafa](https://twitter.com/ijmustafa)

## COURSEWORK

### GRADUATE

Math Techniques in Comp Sci  
Fundamental Algorithms  
Artificial Intelligence  
Statistical NLP

### UNDERGRADUATE

Computational Aspects of Robotics  
Intro to Probability and Statistics  
Combinatorics/Graph Theory  
Data Structures in Java

## SKILLS

### LANGUAGES

Proficient:

Objective-C • C++ • C • Java

MATLAB •  $\text{\LaTeX}$

Familiar:

Haskell • OCaml • Python • HTML  
CSS • Assembly • Swift • R

### SOFTWARE/TOOLS

Vim • Git • NetBeans • Unix  
Creo Parametric • XCode • Linux

## AWARDS/HONORS

SPS National Physics Honor Society  
National Society of Physics Students  
Deans List awarded four times

## PROJECTS

### PINGR | PERSONAL PROJECT

Sept. 2014 – Dec 2014 | New York, NY

- Pingr is an iOS app that easily enables you to share your location with friends.
- Built using objective-C, Parse's REST API and Twitter Digits.

### CROWSNEST | CO-FOUNDER

May 2014 – Sept. 2014 | New York, NY

- Crowsnest is an iOS app that lets you share content with people near you.
- Built using objective-C, Amazon DynamoDB, and Twilio API.

### MEWS | DEVFEST AT COLUMBIA UNIVERSITY

April 2014 | New York, NY

- MEWS uses sentiment analysis to rate your news in terms of "happiness".
- Built using Python, Flask, SentiWordNet, and the "USA Today" API.

## EXPERIENCE

### GLOBALAC TECHNOLOGIES, INC. | LEAD DEVELOPER

May 2015 – present | New York, NY

- Lead developer for a pre-launch startup developing a social iOS app that connects people based on specific interests.
- Building the app using objective-C, and using Parse REST API for backend.

### FLATIRON SCHOOL | IOS DEVELOPMENT IMMERSIVE

Sept. 2014 – Dec 2014 | New York, NY

- Skills: Objective-C, Swift, Git, Agile Development, Test-driven Development.
- Consulted with Do Something, a non-profit organization, to develop an iOS application showcasing their currently active campaigns.

### SAMSUNG ELECTRONICS | SOFTWARE ENGINEERING INTERN

May 2013 – Sept. 2013 | Suwon, South Korea

- Developed a plugin using imageJ to streamline batch analysis of images.
- Designed factorial experiment to test effectiveness of plugin.
- Conducted ANOVA statistical analysis using Minitab on results.

## ACADEMIC/RESEARCH

### SENIOR CAPSTONE PROJECT | LAPAROSCOPIC ROBOT

Sept. 2013 – May 2014 | Columbia University, New York, NY

- Created a 9-DOF laparoscopic snake robot for use in surgical applications.
- Programmed visual robotic movement simulations in MATLAB.
- Developed and coded multiple algorithms for robotic movement using Arduino.
- Awarded second place for most innovative project.

### THE HONE GROUP | RESEARCH ASSISTANT

Sept. 2012 – May 2013 | Columbia University, New York, NY

- Assisted doctoral candidate Daniel Chenet with large-grain  $\text{MoS}_2$  CVD growth.
- Facilitated with tasks such as piranha etching, LabView control of CVD furnace, Raman spectroscopy analysis, and SEM characterization of carbon nanotubes.
- Attained clean room certification as well as training and experience on Micro-RIE Series 800, S-4700 SEM, Agilent 8500 SEM, ThermCraft Inc. CVD, Renishaw Raman Spectrometer, Wafer Saw.