

# Deb Banerji

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GitHub: <https://github.com/debkbanerji>

## EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2015 - Present

- Bachelor of Science in Computer Science - GPA: 4.00/4.00

Expected Graduation: May 2019

Vasant Valley School, New Delhi, India

January 2011 - March 2015

## EXPERIENCE

Software Engineer - Yobi Technologies, Gurgaon, India

- Extreme weather alert decision tool** - for use by central government in a northeast state of India to send SMS messages to residents for extreme weather events. Product has been developed further to scale to four more states with combined populations of nearly 20 million.  
June 2016 – August 2016
  - Implemented geo-spatial framework to map weather predictions from multiple global climate models to critical places for floods - *JavaScript, Python*
  - Developed framework to analyze climate forecasts success rates, using data from company's patent-pending, Internet-of-Things weather stations and other scraped data - *Python*
  - Built Android application to streamline installation of weather stations - *Java*
- Project Manager, UAV for surveying agricultural land** - for use by India office of Columbia University's Water Center. Saw project from concept to product.  
March 2015 – August 2015
  - Built three different versions of the UAV, using different flight controllers - *C++*
  - Implemented Android app controller system to control UAV via Bluetooth - *Java*
  - Worked with team of 6 on project, managed testing with farmers in Haryana
  - Presented UAV to head of Columbia Water Center's India office

Social Media Intern - *Module One Limited*, New Delhi, India

May 2013 – June 2013

- Generated traffic through content marketing

## LEADERSHIP AND INVOLVEMENT

Competitor, Volunteer, *World Cube Association*

February 2014 - Present

- Competed in, volunteered at multiple official World Cube Association Rubik's Cube competitions
- World Cube Association Competitor ID: 2014BANE01

Secretary, *Georgia Tech Residence Hall Association*, Atlanta, GA

September 2015 - December 2015

- Elected to manage bills, organize social events for over 300 residents

Volunteer, *Indian National Trust for Art and Cultural Heritage*, New Delhi, India

May - June 2014

- Digitized and organized monument data, reorganized local branch's computer system

## PROJECTS

- Simulator to calculate power consumption of mobile device RAM - *Python* Undergraduate Research
- Home surveillance, automation system - *Android, Arduino, Raspberry Pi, C++, Java, Python* Winner, HackEmory 2016
- Platform for collaborative community event planning - *Android, Java* Runner-Up, (CS)^2 Hackathon, 2016
- Multiplayer 3 dimensional maze game - *Unity, C#* Finalist, SwampHacks 2016
- Application for harmonious audio streaming - *Android, Java, JavaScript* Runner up, Georgia Tech Appathon 2015

## SKILLS

**Tools:** C, C++, C#, Java, Python, HTML 5, CSS, JavaScript, JSON, SQL, Android Development, Git, Arduino, Raspberry Pi, Unity, BASH Scripting, Linux, Windows, Mac OS X

**Concepts:** Object Oriented Programming, Data Structures, Algorithms, Dynamic Programming, Collections, Recursion, Stacks, Queues, Linked Lists, Skip Lists, Heaps, Binary Trees, Graphs, Maps, Hash Tables

**Languages:** English - Fluent, Hindi - Native