

Deb Banerji

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OBJECTIVE

To challenge myself through a fulfilling summer 2017 software engineering internship

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

EXPERIENCE

Teaching Assistant - Georgia Institute of Technology

- Data Structures and Algorithms **August 2016 – Present**
 - Responsible for grading over 50 students, leading weekly 90 minute recitations, holding office hours and helping design homework assignments and recitation guides

Software Engineer - Yobi Technologies

- Extreme weather alert decision tool - for use by central government in Nagaland, India, to send SMS messages to residents for weather related emergencies; implemented framework 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 forecast success rates, using data from company's weather stations - *Python*
 - Built Android application to streamline installation of weather stations - *Java*
- Project Manager, Quadcopter for surveying agricultural land - for use by the India office of Columbia University's Water Center; oversaw project from concept to product **March 2015 – August 2015**
 - Built three different versions of the quadcopter, using different flight controllers - *C++*
 - Implemented Android app controller system to control quadcopter via Bluetooth - *Java*
 - Worked with team of 6 on project, managed testing with farmers in Haryana, India

Social Media Intern - Module One Limited

May 2013 – June 2013

- Generated traffic for the company website 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

September 2015 - December 2015

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

Volunteer - Indian National Trust for Art and Cultural Heritage

June 2014

- Digitized and organized monument data, reorganized Delhi 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**
- Application for synchronized audio streaming - *Android, Java, JavaScript* **Runner up, Georgia Tech Appathon 2015**
- Chat application with profanity tracker - *JavaScript, Node.js, Express.js* **Winner, HackGTeen 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