Deb Banerji

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OBJECTIVE

Experienced Undergraduate Computer Science Major with Analytical Mind and Strong Leadership Skills Seeking 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*
- **CS 1332 - 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 to send SMS messages to residents for weather related emergencies; developed tool to scale to four 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   **March 2015 – August 2015**
  - Built three different versions of the quadcopter, using different flight controllers - *C++*
  - Implemented Android application controller system to control quadcopter via Bluetooth - *Java*
  - Worked with team of 6 on project, managed testing with farmers in Haryana

Undergraduate Researcher - *Georgia Institute of Technology*   **January 2016 – May 2016**
- Implemented simulator to calculate power consumption of mobile device RAM - *Python*

Volunteer - *Indian National Trust for Art and Cultural Heritage*   **June 2014**
- Digitized and organized monument data, reorganized Delhi branch's computer system

PROJECTS

- 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*   **Winner, HackGTeeny 2015**

LEADERSHIP AND INVOLVEMENT

Organizer, Competitor - *World Cube Association*   **February 2014 - Present**
- Organized, competed in multiple official World Cube Association Rubik's Cube competitions
- World Cube Association Competitor ID: *2014BANE01*

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