Roshan Thapaliya

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Education: Howard University *Washington, D.C* **Major:** Computer Science
Classification: Sophomore **Expected Date of Graduation**: May 2017
Current GPA: 3.88

Course Highlights and Computer Skills

Python (2 years) Intro to Computer Science-SYCS 100, Intro to Computer Science Course in UDACITY (received high distinction)
HTML, CSS , JQuery, Javascript (1 semester + used in summer research 2014)
C programming (1 semester), C++ (2 semesters), Java (1 semester), UNIX Lab (1 semester)
UI development with Google Polymer (helped a senior student develop UI for web app in his senior project)
Node.js (beginner), **QBasic** (2 years), **Raspberry-pi (Developed web apps with Google CODER), Google App Engine**

Internships

- **Engineering Practicum Internship 2015 at Google**
  - Designed and implemented a continuous build system for **Roku** from the ground up using **Buildbot.** Used python multiprocessing module to schedule tests and builds. Designed and implemented overall workflow system including downloading source code, doing builds and tests, storage management, email notification, and presenting results in Web Framework.
  - Presented the project to **Play Productivity Team**.
- **REU (Research Experience for Undergraduates) funded by DIMACS-Research on Crowd Simulation 2014**
  - Created a model of a panic situation after a fire in a stadium from real life example of Bradford City Stadium
  - Analyzed various factors that affected death rate
  - Used **Javascript**, **Google App Engine**, **HTML Canvas** and **CSS** for the project
  - Presented the research at 2015 IEEE International Symposium on Technologies for Homeland Security

In-class Projects

- **Created a Game named 'Space Madness' on Google CODER for WebMakers**
  - Utilized **HTML5**, **JavaScript**, **JQuery** and **CSS3** to make a simple game in 2 weeks
  - Made characters in the game using CSS3 and HTML5
  - Used requestAnimationFrame method in JavaScript to create a game loop and JQuery animations.
- **Created a Chat application**
  - Using **Node.js** JavaScript, HTML, CSS created a web chat application

Out of Class Projects

- Used **Google Polymer** to create **UI for web page** for a senior project which won **Best Innovative Project** in BIT awards at Howard University
- **Coding race** at Howard University (**Third Prize** - won a SONY digital camera)

Participation/Training

- **Google Edge 2014**(A week long intensive course on C programming and other computer concepts)
- **Google CS Summit Aug 2014 (**Created a program with python that uses **Twitter API** to get top trending tweet and create Haikus out of it**)**
- South Asian Youth Summit: Developing Leadership in Young People to Transform Communities(**April 25- May 20, 2010 in Pittsburgh, United States**); Sponsored By: The Youth Programs Division, Office of Citizen Exchanges, Bureau of Educational and Cultural Affairs, United States Department of State

Noteworthy Awards

- **Founders Scholarship Howard University (Full Tuition, Room and Board and Book Voucher of $250 for 2013-2017)**
- **Honorary Mention** at **Howard Hackathon 2013** organized by Google

Volunteer Activities

- **IT lab establishment in three high schools from remote area in Nepal (2011)**
  - Donated computers, printers, scanners, routers established Internet Connection for the use of school.
- **Library Establishment in Jana Netra High School in Nepal (2010)**
  - Donated 1100 books with help of US embassy and other sponsors.