**SAURAV KESHARI ARYAL**

111 Rhode Island Avenue NW, Apt. # 3, Washington, DC 20001

202-413-3077

saurav.aryal@bison.howard.edu

# Education

**Howard University**, Washington, District of Columbia, USA. Expected May 2018

Bachelor of Science in Systems and Computer Science **GPA 3.76/4.0**

# Computer Skills and Relevant Coursework

**Languages**: • Python • C++ •Ionic/Cordova • Java

• MATLAB/Octave, HTML, CSS, JS, ExpressJS, AngularJS, NodeJS, d3.js, bash, MIPS, Swift (beginner)

**College Courses**: • Computer Science 354(Data Structures) • Big Data Analysis I • Programming Team/UNIX Lab

• Intro to Machine Learning • Intro to Linear Algebra • Probability and Statistics I

• Mobile App Dev-IOS /Ionic-hybrid • Computer Organization I, II • Bison Startup/Accelerate

**Online Courses**: • Machine Learning (Stanford University via Coursera)

* Harvard’s CS 050 from edx.org • Introduction to Algorithms from ocw.mit.edu.

# Work and Relevant Experience

**Intern** Google, Mountain View, CA. May 2016 – Aug 2016

• Returned as an Engineering Practicum intern to work with the Google Code Jam Team.

• Designed and implemented a new cheating detection library for submissions to the Google Code Jam competitions.

• Worked full stack with Python servers, shell scripts, JavaScript, HTML/CSS, and C++/LibClang.

• Developed using technologies such as: Google App Engine, Protocol Buffers, Distributed Computing, and LLVM/Libclang.

**CEO/Co-Founder** Songum Aug 2015 – Current

• Co-founded a startup to develop a dating platform based on musical preferences.

• Focused on seed-fundraising efforts, overall project-management, and negotiating a partnership with Spotify.

• Won First place in the first Annual Student Dream Pitch competition for the best business idea/model.

**Extracurricular** Attending Hackathons, Tech Events, and Clubs Aug 2014 – Current

• Participated and/or registered for 18 hackathons, including MHacks V, Google DC Hack, HackHoward, Hack@Brown etc.

• Participated in tech-related or leadership-based events, such as: ACM ICPC Regionals, Google Developer Fest DC, 9th Annual Winter Student Leadership retreat, Open Data Day DC-2015.

• Worked on Genome Mapping and Campus Map design projects through Computer Learning and Design Center @ Howard.

**Research Assistant** Computational Physics Laboratory, Howard University Aug 2015 – May 2016

• Worked on developing a parallel computing library using MPI for astronomy-related research projects.

• Participated and helped organize a two-day [MPI workshop](http://www.psc.edu/index.php/xsede-hpc-series) at Howard through the Pittsburg Supercomputing Center.

• Assisted in scaling matrix computational solutions using MPI over [Stampede at xsede.org](https://portal.xsede.org/tacc-stampede).

**Intern** Google, Mountain View, CA May 2015 – Aug 2015

• Selected as an Engineering Practicum intern for twelve weeks in Google Display/Video Ads.

• Coded a backend library, which will be a daily job, for an Ad-effectiveness measurement product in Python.

• Worked with an enormous dataset in Bigtable as well as complex three layered Protocol Buffers.

# Awards and Accomplishments

• **Founders Award –** A highly selective merit-based award that covers the full cost of attendance for college.

• **First** at the Intel Wearables + things Hackathon for a Pebble Metro App for multiple cities.

• **First** place in the first Annual Student Dream Pitch competition for the best business idea/model

• **Second** at the At&t WIT hackathon for using their messaging API for food-based Event web app.

• **Second** in the RSA Cyber Case Competition for a browser extension that aids in randomizing user's browsing