**SAURAV KESHARI ARYAL**

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# Education

**Howard University**, Washington, District of Columbia, USA.

*B.S. in Computer Science, Magna Cum Laude Honors, May 2018*  ***Undergraduate******GPA 3.63/4.0***

*PhD, Computer Science in Artificial Intelligence (****Expected Fall 2020)******Graduate GPA 3.88/4.0***

# Computer Skills and Relevant Coursework

**Languages**: • Python • Javascript(Angular, Ionic) • C/C++ • Java • HTML/CSS • MATLAB/Octave • Swift

• Bash • MIPS/Assembly • Lisp • Prolog • Scheme(RSR5) • Verilog/HDL

**Undergraduate Courses**: • Data Structures • Linear Algebra • Probability and Statistics • Information Theory • Discrete Mathematics • Mobile Development • Structures of Programming Languages

# Graduate Courses: • Computability-Complexity • Advanced Software Engineering • Big Data Analysis • Machine Learning

**•** Computer Architecture **•** Advanced Operating Systems • Artificial Intelligence •  Neural Modeling

**•** Advanced Algorithms • Human-Computer Interaction • Cybersecurity • Security in IoT

# Internship Experience

**Software Engineering Intern** Storage/API, Google, New York, NY May 2017 – Aug 2017

*• Developed a distributed load testing framework for a large scale, production-grade user data storage service using C++.*

**Engineering Practicum Intern** Code Jam, Google, Mountain View, CA. May 2016 – Aug 2016

*• Designed and implemented a new cheating detection pipeline for submissions to the Google Code Jam competitions in C++.*

**Engineering Practicum Intern**  Display/Video Ads , Google, Mountain View, CA May 2015 – Aug 2015

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

**Relevant Experience**

**Research Assistant**  Affective Biometrics Lab (ABL), Howard University Aug 2018 – Current

*• Working on biometric identification and authentication using 2D ear images as a dissertation topic.*

*• Mentored freshman undergraduate and new graduate students in the lab on academics, industry, and research.*

**Research Assistant**  NLP Research and Computer Visions Groups, Howard University Aug 2016 – May 2017

*• Assisted in solving question-answering NLP problem and pedestrian tracking from video feeds on edge Raspberry Pi devices.*

**Research Assistant** Embedded Systems/Security Research Lab, Howard University Dec 2016 – May 2018

*• Helped in developing a network intrusion detection/handling system for a fail-safe operational automobile project.*

**CEO/Co-Founder** Songum Aug 2015 – May 2016

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

**Teaching Assistant** Computer Science Department, Howard University Aug 2016 – May 2017

• *Served as a Teaching Assistant for Operating Systems, Information Theory, Machine Learning, and 3 other courses.*

# Awards and Accomplishments

• **Graduate Resident Assistant –** Funding provided for my work with ABL, via my adviser, which covers tuition and stipend.

• **Founders Award** **–** A highly selective merit-based award that covers tuition, housing, and meal plans for 4 years.

• **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

• **Third** in HBCU Hacks 2016 for a skill-based professional match making mobile application.