

# 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*

*M.S. in Artificial Intelligence and Algorithms (Thesis Defense pending)*

*PhD, Computer Science in Artificial Intelligence*

**Undergraduate GPA 3.63/4.0**

**Graduate GPA 3.82/4.0**

**Expected Spring 2020**

## Computer Skills and Relevant Coursework

**Languages:** • Python • C/C++ • Java • MATLAB/Octave • Javascript(Angular, Node, d3.js) • Swift  
• Bash • Prolog • Lisp • Scheme(RSR5) • Verilog/HDL • HTML/CSS • MIPS/Assembly

**Undergraduate Courses:** • Data Structures • Linear Algebra • Probability and Statistics • Artificial Intelligence  
• Algorithms • Information Theory • Computer Organization • Discrete Mathematics  
• Database Systems • Software Engineering • Operating Systems • Mobile Development  
• Structures of Programming Languages • Theory of Computation • Operations Research

**Graduate Courses:** • Machine Learning • Advanced Software Engineering • Big Data Analysis • Computability/Complexity  
• Neural Modeling • Advanced Operating Systems • Artificial Intelligence • Computer Architecture  
• Master's Thesis • Advanced Algorithms • Quantum Information Theory

## 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.

**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** Computer Vision Research Group, Howard University Jan 2017 – Current  
• Assisted with a project for counting and uniquely tracking automobiles at an intersection using Python and OpenCV.

**Research Assistant** NLP Research Group, Howard University Aug 2016 – May 2017  
• Studied short questions-answer pairs in order to predict the best answer from a given set of possible answers for a question.

**Research Assistant** Embedded Systems/Security Research Lab, Howard University Dec 2016 – Current  
• 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 – Current  
• Served as a Teaching Assistant for Operating Systems, Information Theory, Machine Learning, and 3 other courses.

## Awards and Accomplishments

- **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.