

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 – Dec 2017
• 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 – 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

- **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.