

SAURAV KESHARI ARYAL

4613 9th St NW, Basement, Washington, DC 20011

240-233-4960

saurav.aryal@bison.howard.edu

Education

Howard University, Washington, District of Columbia, USA.

B.S. in Computer Science, Magna Cum Laude Honors, May 2018

PhD, Computer Science in Artificial Intelligence (Expected Fall 2020)

Undergraduate GPA 3.63/4.0

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.

• 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.