Swapnil Tamrakar

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EDUCATION

Howard University   **Expected Graduation: May 2019**
Washington, District of Columbia   *Bachelor of Science in Computer Science (GPA 3.95)*

Honors:
- Capstone Scholarship totaling $132,000 covering tuition, fees, room and board for four years of study
- Residential Hall Honors Recognition for achieving 4.0 GPA for three consecutive semesters

Courses:
Intro to CS (Python), Computer Science I, II and III (C++), UNIX lab, Computer Organization I and II (MIPS, C), Discrete Structures, Linear Algebra, Probability and Statistics, Algorithms (@ UMD-College Park), Intro to Mobile App Dev (Android), IOS dev (CodePath), Large Scale Programming (Java), Scientific Computing (MATLAB), Artificial Intelligence, Operating Systems, Software Engineering, Theory of Computation, Science of Information

RELEVANT EXPERIENCE

Microsoft Corporation, Redmond, Washington   **May 2017 – Aug 2017**
Explorer Intern, OneDrive Microservices
- Worked on a new feature on OneDrive for Business for increased user productivity and connectivity
- Used Object Detection and Text Recognition modules to detect the name and company in a business card in the event of a business card upload to OneDrive (C#)
- Built an extensible system to notify the user, who uploads a business card, the potential LinkedIn profile of the person on the business card in an email (using C#, RazorView, HTML, CSS)

Howard University, Washington, D.C.   **Feb 2017 – Present**
Undergraduate Researcher

- Researching vehicular networks and security under Dr. Danda B. Rawat at the CWiNs Lab
- Built a web app in PHP for data visualization of bumps on the road for a given area on the map
- Building an AR app to simulate the degree of phone security of a given phone

Howard University, Washington, D.C.   **Sep 2015 – Dec 2015**
Research Assistant

- Researched with The Golden Snitch project team to build an autonomous drone project by programming an Arduino board for the project and built a website for the project

SKILLS

Languages: Python (2 years), C++ (1.5 years), Java, MATLAB, MIPS, C, Swift, PHP, HTML, CSS, JavaScript (self-taught at freecodecamp.org), C# (3 months, self-taught during internship at Microsoft), UNIX
Other skills: Version Control with Git, Web Frameworks including D3.js, jQuery

PROJECTS AND EXTRACURRICULARS

No More Difficulty, **MIDAS Mission Public Health Hackathon 2016 (4th Place)**
- Used parallel processing to mine US Census data and a data visualization app for state-wise health data

Foodle, **Self-Project**
- A cooking recipe creation and retrieval app with text-to-speech abilities that allow users to hear instructions while cooking as well as share recipes with a global audience (Android)

Hi-Metro, **Team-Project**
- A real-time metro information app for DC metro and metro bus and smart scheduling built using Swift (IOS)

Electrobar, **Google DC Hackathon 2016**
- Used Twitter API to retrieve data on the 2016 US presidential election and analyzed the sentiment of the tweets and visualized the data on a US map by state using d3.js

Active Club Member, **ACM Howard Chapter, Cyber-Security Club, C.A.S.C.A.D.E. (LGBT Club)**