Swapnil Tamrakar

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**EDUCATION**

**Howard University**

*Washington, District of Columbia*

**Expected Graduation: May 2019**

*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](http://www.cwins.org/)
* 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](http://ai2.appinventor.mit.edu/?galleryId=5666031988375552), **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](https://github.com/Terp-Bisons/Metro_DC_Codepath), **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)**