

Yusuf Ameri

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EDUCATION

2015 - 2018 University of Maryland, College Park | GPA: 3.35
BS in Computer Science, **Data Science Specialization** (with Statistics and Math elective focus)
Honors College – Entrepreneurship and Innovation Program (EIP)

EXPERIENCE

Spring 2017 **Teaching Assistant, University of Maryland**
Undergraduate Computer Science Department, College Park MD

- Teaching discussion session for CMSC131 as well as holding office hours.

Summer 2015 **Software Engineering Intern, National Institute of Standards and Technology**
Applied and Computational Mathematics Division, Gaithersburg MD

- Conducted an extensive code review and debugged an Open Source MediaWiki (DRMF) for a mathematically-oriented audience
- Analyzed and documented code for future interns

Summer 2014 **Software Engineering Intern, National Institute of Standards and Technology**
Center for Neutron Research, Gaithersburg MD

- Developed *scalable* and *parallel* computational models in OpenCL on a GPU to increase neutron modeling speed 50x fold
- Designed a *python* user interface for various physics models used by the lab

2015 - Present **Writer and Hacker, Terrapin Hackers**

- Attended 10+ hackathons across the east coast since Nov 2015
- Publish stories about Terrapin Hackers events (www.medium.com/@yusuf.ameri)

TECHNICAL PROJECTS

Fall 2016 **Presidential Selections Database – CMSC424: Database Design**

- Designed and scrapped data online (ETL) for historical US presidential elections since 1789.
- Scrapped numerous websites for data on polls, popular and electoral votes, population, and candidate info such as party and profile pictures. The UI is accessible via a website.
- Built with: *R, PHP, MySQL, HTML, CSS, Bootstrap*. (*<= LAMP Stack*)

September 2016 **Doctor Alexa – MedHacks 2016: John Hopkins University Hackathon**

- Smart voice enabled Amazon Echo assistant to help patients in the medical triage
- Converses and connects you to the medical attention you need
- Built with: *Node.js, Javascript, Amazon Web Services, Amazon Echo*

March 2016 **WhichBus Navigation – Bitcamp 2016: University of Maryland Hackathon**

- Revamped the national NextBus navigation app to provide bus transit directions
- Implemented shortest path graphing algorithms (dijkstra's) on UMD transit system
- Open Sourced to community as a Ruby Gem
- Built with: *Ruby Gems, NextBus API*

January 2016 **Charity API – HoyaHacks 2016: Georgetown University Hackathon**

- Created an API for the IRS's open data on 501c non-profits (ETL)
- Designed a database, wrote validation tests, and cleaned the data
- Built with: *Ruby on Rails*

AWARDS AND RECOGNITION

2015 Graduated in top 5% of class
2015 AP Scholar with Distinction
2015 Certificate of Meritorious Service for 260+ SSL hours

COMPUTER TECHNOLOGY SKILLS

Languages: Ruby, R, Java, C, SQL (Oracle and MySQL), Octave, Python, PHP
Technologies: Ruby on Rails, UNIX, Git, Ruby Gems, AWS
Methodologies: BDD, TDD, Unit Testing
MOOCs: Machine Learning by Stanford University on Coursera (with **Certificate**)

RELEVANT COURSEWORK

Database Design (CMSC424), Data Science (CMSC320), Algorithms (CMSC351, CMSC451), Data Structures (CMSC420), Programming Languages (CMSC330), Linear Algebra (MATH461, MATH401), Statistics and Probability Theory (STAT400, STAT410), Object Oriented Programing II (CMSC132), Global Entrepreneurship (HEIP240)

INTEREST

History, Psychology, Cognitive Sciences, Soccer, Graph Algorithms, E-commerce