Yusuf Ameri

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WORK EXPERIENCE

Microsoft, Software Engineer **Aug 2018 - Present**

Azure Global Division

- Working across the full web stack (frontend, backend, and devops) on a new Azure service to empower Azure customers on the cloud
- Migrated an entire live service between two different tenants on the Azure Government Cloud with close to zero down time using Microsoft's latest internal and external tooling and automation suite

Capital One. Software Engineering Intern **June 2018 - July 2018**

Card Tech Division

- Designed an intelligent chatbot with Node.js using NLP techniques that could answer FAQ on a slack support channel and point developers to documentation for further help

Microstrategy, Software Engineering Intern **June 2017 - Aug 2017**

Enterprise Assets Division

- Developed a custom real-time metrics monitoring dashboard for an Apache Spark workload in AWS using Apache Kafka, a Scala consumer and a MongoDB datastore, with Microstrategy Business Intelligence as the frontend
- Automated the ETL process for real-time employee fitness tracking at Microstrategy for our over 2000 employees with Fitbits using Node.js (express.js), MongoDB, and the Fitbit API

National Institute of Standards and Technology, Software Engineering Intern **June 2014 - Aug 2015**

Applied and Computational Mathematics Division

- Engineered *scalable* and *parallel* computational models in OpenCL on a GPU to increase our labs neutron modeling speed *50x* fold
- Designed a user interface to increase productivity for various physics models used by the lab
- Conducted an extensive code review, wrote unit tests, and debugged an Open Source MediaWiki (called DRMF) for a mathematically-oriented audience

EDUCATION

University of Maryland, College Park **Aug 2015 - May 2018**
BS in Computer Science, Statistics Minor, with Data Science Specialization
Honors College – Entrepreneurship and Innovation Program (EIP)

TEACHING EXPERIENCE

Teaching Assistant for CMSC131, CMSC424, University of Maryland **Jan 2017 - May 2018**

Undergraduate Computer Science Department

- Led discussion sessions, prepared material, graded, held office hours, and mentored students in Intro to Object Oriented Programming with Java (CMSC131 - Spring '17,'18).
- Assisted students and graded assignments for Database Design (CMSC424 - Fall '17)

TECHNICAL PROJECTS

DFS: Distributed File System **Aug 2017 - Dec 2017**

CMSC818e: Distributed and Cloud Based Storage Systems

- Engineered a fully distributed, peer-to-peer FUSE file system with Go(lang) using principles read in research papers
- Designed the system with features such as consistency, consensus (RAFT) and versioning
- Built with: *Go, FUSE, AWS S3, ZMQ*

CardiParty.co | Cards Against Humanity Clone **Jan 2019 - Present**

- Designed and coded a fully web responsive and live version of the popular card game
- Multiplayer game supports real time gameplay and works across multi platforms
- *Built with: React.js, Node.js (Express.js), Socket.io, Redis, MongoDB, Sketch (Design)*

Charity API **Jan 2016**

Hoyahacks 2016: Georgetown University Hackathon

- Worked with a lawyer and political science Phd student to create an open source api to determine eligible 501c
- Wrote data migrations, data cleaning, and loading (ETL) for raw open data and incorporated it into a Rails API
- Built with: *Ruby, Ruby on Rails* *[see live site at: http://charityapi.org/]*