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Education

University of Maryland, College Park - B.S. Computer Science

Expected May 2021 • GPA: 3.8/4.0

- Honors College (Gemstone Program), President's Scholarship
- Relevant Coursework: Data Science, Design & Analysis of Algorithms, Computer & Network Security, Programming Language Technologies & Paradigms, Computer Systems, Applied Probability & Statistics, Applications of Linear Algebra

Technical Skills

Java • JavaScript • Python • OCaml • Ruby • HTML/CSS • C Languages

Technologies Git · Android Studio · Linux · Jupyter · D3.js · React.js · Node.js · pandas · NumPy · Spring · Docker · AWS

Work Experience

Capital One - Software Engineering Intern

Richmond, VA • Jun - Aug 2019

- Built applications to support the re-platforming and modernization of the company's core customer architecture
- Developed a resilient and scalable RESTful API for customer D.O.B queries to meet expected traffic of 450+ transactions/sec
- Utilized Kafka data streaming platform to publish updates for consumption by downstream services
- Performed extensive unit/integration tests and deployed API on AWS cloud infrastructure using automated DevOps pipeline
- Built full-stack utility to track daily changes within S3 buckets and simplify EC2 instance rehydration through email notifications

U.S. Army Research Laboratory – *Software Development Intern*

Adelphi, MD • Jun - Aug 2018

- Enhanced an internal file hosting service by building features to guard against anticipated network interferences
- Implemented Python algorithms to preemptively move data fragments out of unstable nodes and periodically redistribute data
- Developed a Python script to visualize the effects of the algorithms on a network of Raspberry Pi 3's

National Institute of Standards and Technology – Information Technology Intern

Gaithersburg, MD • Jun - Aug 2016

- Developed a suite of software unit tests to verify that the CAVE (Cave Automatic Virtual Environment) ran properly
- Created a variety of shaders (Blinking Sphere, Iridescent Teapot) using OpenGL to develop a virtual reality visualization

Projects

#Meetup, hashtag-meetup.herokuapp.com

May 2019

Built a full-stack web app that connects users travelling to the same locations using MongoDB, Node, Express & Socket.io

Mar 2019 **Split**

- Awarded Honorable Mention in HooHack's "Best Use of Google Cloud Platform" category
- Built an Android app to simplify the process of dividing the contents of a bill among groups using OCR and Regex

vBikes, v-bikes.net Oct 2018

- Winner of Capital One's Software Engineering Summit Challenge; top 80 out of 600+ applicants
- Built a web app that visualizes various metrics (Station popularity, Monthly trends, etc.) from a LA bike share dataset

Activities

Undergraduate Research Member

Sept 2018 - Present

- Researching to improve upon current computational toxicology methods using machine learning on a 12-student team
- Developed ML models (Random Forest, Neural Network) to predict the hepatotoxicity of drugs using TensorFlow

Bitcamp & Technica Logistics Organizer

Dec 2018 - Present

Coordinating with vendors to provide reliable and high-speed internet for Bitcamp, UMD's 1,300+ attendee hackathon, and Technica, the world's largest all-women hackathon