Oliver Hill Resume

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EDUCATION & SKILLS

University of Michigan

Masters of Science in Statistics and Computer Science *April 2021*
BSE in Computer Science and Engineering *April 2019*

Proficient in: Python, C++, C, Julia, Matlab, SQL, MongoDB, Git, Kafka, Tensorflow, SKLearn.
Experience in: R, Javascript, C#, Scala, Docker, Kubernetes, AWS, Azure, NGINX, QGIS.

EXPERIENCE

Environmental Investigation Agency

Data Scientist, Policy Analyst, Software Engineer *January 2021 – Present*

- Advised environmental policy analysts on statistical methodology to support various policy campaigns.

University of Michigan

Graduate Student Research Assistant *May 2020 – Present*
Advisor: Dr. Fernanda Valdovinos

- Researched the assembly of ecological networks through large-scale simulation in order to better understand empirical network assembly.
- Led statistical analysis and data visualization of network assembly and structure to effectively report findings to non-technical shareholders.

Graduate Student Instructor, Instructional Aide *August 2017 - Present*

- Helped thousands of students with designing, building, and testing programming projects.
- Developed new material and language to increase diversity, equity, and inclusivity within the EECS department.
- Mentored undergraduate instructors to improve pedagogical methods in support of DEI initiatives.

Michigan Aerospace Corporation

Data Scientist, Machine Learning Engineer, Lead Software Engineer *April 2017 – October 2020*

- Researched and developed a Deep Learning system alongside Markov-Chain Monte Carlo methods to identify and predict invasive species population distributions in aerial drone imagery of wildlife preserves.
- Managed a software team in developing a web application from the ground to production to allow scientists and land managers to upload and analyze heterogeneous datasets through a suite of neural networks.
- Designed a variety of hardware and software solutions to ambiguously defined goals and projects through many rounds of use-case study and business requirement investigation.

Arboreal AI

Data Science Advisor *April 2018 - Present*

- Researched and developed supervised and unsupervised learning strategies for sentiment analysis and categorization of restaurant reviews.
- Researched the estimation of wait times for customers in restaurant queues, resulting in predictions nearly four times more accurate than human estimates.

Microsoft

Software Engineer Intern *May 2018 – August 2018*

- Designed and developed a distributed packet capturing system on Azure, Microsoft's cloud computing architecture, with a small team.

LEADERSHIP

Neutral Zone

Zone Hacks Mentor/Teacher *December 2016 – March 2020*

- Worked one-on-one with high school students to determine and develop unique programming projects.
- Attempted to diversify the demographics of students interested in computers through community outreach.