

LEMARA WILLIAMS

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EDUCATION

Virginia Polytechnic Institute of Technology, Arlington, VA **Expected May 2024**
Master of Science, Computer Science

Amherst College, Amherst, MA **Graduated May 2022**
Bachelor of Arts, Music & Computer Science **GPA: 3.7/4.00, Summa Cum Laude**

- My thesis in music, Genre Technicalities, was awarded the Mishkin Prize for producing the best senior thesis on a critical or compositional music topic.
- **Relevant Courses:** Data Structures, Introduction to Machine Learning, Probability and Computing, Computer Systems, Algorithms, Theoretical Foundations of Computing
- **Activities:** Amherst College Computer Science Club (Director of Marketing, August 2020-2022), Dance and Step at Amherst College (August 2018-Present, Media Coordinator 2020-2021, Company Manager 2021-22), Remnant Black campus Ministry (Treasurer August 2019-2022)

Broward College, Davie, FL **Graduated May 2018**
Associate of Arts **GPA: 3.86/4.00**

- Graduated with Highest Honors

RELEVANT EXPERIENCE

IBM Research, IBM, Yorktown Heights, NY **May 2022 – August 2022**
Software Development Research Intern

- Working on an AI Infrastructure Optimizer extension to identify zombies in the cloud, or workloads with a nonproductive status
- Identifying characteristics of a nonproductive status for a workload in the cloud and build a machine learning workflow for classification
- Working towards filing a patent and a paper

Brown ExploreCSR **January 2022 – May 2022**

- Paired with Dr. Daniel Ritchie and Kai Wang for guidance through a semester-long research project
- Worked on the classification of point clouds using BuildingNet, a large-scale dataset of 3D building models, to see how well they perform
- Presented my findings at the Brown CS Undergraduate Research Symposium in May 2022

Johnson & Johnson, Janssen Pharmaceuticals, Raritan, NJ **June 2021 – August 2021**
Advanced Computing Intern

- Supported various advanced computing projects in Global External Innovation Analytics and Open Data Science Lab
- Evaluated current data lake infrastructure and improvements with AWS Step Functions along with implementation steps
- Enhanced and created Tableau dashboards to enable in-depth analysis of infrastructure costs on a project, user, and organization level over time
- Used JavaScript to assist with the development of a RESTful API for client-server calls for clients outside of the company's firewall

TechPoint S.O.S. Challenge Participant, Indianapolis, IN **June 2020 – July 2020**
Team Member, Project Manager

- Participated as a software developer on a multi-disciplinary team to create a solution for the challenges the Community-Based Organizations and Nonprofits faced during the COVID-19 pandemic.
- Worked remotely 15 hours per week to create a go-to-market strategy and product prototype
- Developed "Smunity," a web-based platform to create a more efficient network of connections between nonprofits

Inclusive Legal Search LLC, Miramar, FL **June 2019 - August 2019**
IT/Computer Systems Intern

- Coordinate with teams to utilize technology to improve communication
- Contribute to enhancing functionality and profitability for computer systems
- Database upkeep through law industry-specific software
- Assisted with the development and execution of system-based solutions

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RELEVANT PROJECTS

Insane Noises

May 2022

- Used the Clojure, alongside Clojure plug-ins Quil and Overtone, to create a visual speaker that would release circles in different colors, sizes and durations depending on the sequence of notes being created through evolutionary computation

Wonkifier Audio Plug-In

April 2021

- Used the SOUL language to help build an audio plug-in to manipulate the formants from input and create a chorus from the input to be returned from a speaker

Introduction to Machine Learning Final

May 2020

- Used Python and Scikit-Learn along with other machine learning libraries to classify a driver's alertness and used regression analysis to find what factor affects drivers the most

RELEVANT SKILLS

- **Programming Languages:** Java, Python, LaTeX, HTML/CSS, MySQL
- **Software:** Linux, Kubernetes, Tableau, Jupyter Notebooks, MATLAB, NumPy, Pandas, Scikit-Learn, Microsoft Office

OTHER SKILLS & INTERESTS

- Intermediate proficiency in French (writing, speaking, and reading)
- Playing violin and piano
- Traveling
- Dancing