### **Khalil Jalen Anderson**

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# **Education:**

# Northwestern University (September 2018-Expected Graduation: June 2023)

- PhD Student in Computer Science focused in Artificial Intelligence
- GPA: 3.75
- Research Interests: Reinforcement Learning, NLP, Deep Learning, Multimodal Learn Analytics, and AI & Education, AR/VR
- TIILT Lab

# University of Maryland, Baltimore County (June 2014-May 2018)

- Bachelor of Science in Computer Science and Minor in Biology
- Cum Laude
- GPA: 3.573, Major GPA: 3.8, Honors College
- Meyerhoff Scholar, NSA Scholar

## **Skills:**

Programming Languages: Java, Python, C/C++, Lisp, JavaScript, R, PHP, HTML, CSS, React, Android, MySQL, REST, GraphQL, Scheme, Assembly (x86, ARM)

# **Work Experience:**

## Data Science Research Intern, Adobe (June 2018 – August 2018)

 Performed research focusing on combining virtual reality, computer vision, machine learning, and ecommerce for Adobe products

# Mobile App Design Subject Matter Expert and STEM Teacher, Howard County Library System (August 2016 – May 2018)

- Aide in designing a mobile app called STEM Quest for High School student that is educational and fun that will allow the library to track the progress of kids in our classes.
- Plan and teach classes in multiple STEM subjects such as Computer Science, Chemistry, and Robotics

### Machine Learning and Artificial Intelligence Research, UMBC (July 2016 – May 2018)

- Work on pushing the limits of currents algorithms that work with multi or single agent planning and learning to help develop new concepts for artificial intelligence.
- Created a domain to plan and learn to clean up a room using object-oriented Markov decision processes in a continuous domain.

#### Undergraduate Researcher, University of Arizona (June 2017 – August 2017)

- Work on simulating a Vehicular Adhoc Network with different configuration of the physical layer to compare the performance of the currently licensed 5.9 GHz band to the unlicensed analog TV white space.
- Co-authored a paper called "Validation of a CRV Model Using TVWS Measurements" that has been accepted to WinnComm in November 2017.

### Sales Consultant, Best Buy (October 2015 – August 2016)

• Assisted and sold connected devices such as tablets, security camera systems, routers, headphones, and speakers by learning extensive details about the products.

# SURF Student, National Institute of Standards and Technology (May 2015 – August 2015)

- Implemented the Green Button Standard on the NIST campus which has over 30,000 different measurements and wrote documentation for the implementation of the Green Button interface
- Created a messaging pathway that allowed MySQL to communicate with Python and Python to communicate with Java while creating xml files that the Green Button server can process

# STEM Assistant, Howard County Library System (October 2013 - August 2015)

Taught STEM (Science, Technology, Engineering and Technology) subjects to student between 6<sup>th</sup>-12<sup>th</sup> grade or assist other teachers in these subjects.

# **Publications:**

- Worlsey, Marcelo, Anderson, Khalil, Melo, N., Young Jang, J., Hardy, N. (2021). Designing Analytics for Collaboration Literacy and Student Empowerment. In *Journal of Learning Analytics*.
- Anderson, Khalil, Dubiel, T., Tanaka, K., and Worsley, M. (2019). Chemistry pods: A multimodal real time and retrospective tool for the classroom. In *ICMI*.
- Anderson, Khalil, Lusk, L., Hands, M., and Vanhoy, G. (2017). Validation of a crv model using tvws measurements. In WinnComm.