Khalil Jalen Anderson

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Education:

Northwestern University (December 2025)

- PhD in Computer Science, focused on Artificial Intelligence
- **GPA: 3.75,** Honors: GEM Fellow

University of Maryland, Baltimore County (May 2018)

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

Relevant Projects:

nublinc.org, **Building Literacy in N-person Collaborations (BLINC)** (**September 2018 – December 2025)** Link

- Spearheaded the design and development of a Multimodal Learning Analytics tool, BLINC, that leverages machine learning to provide real time and post hoc feedback on college students' collaboration skills from audio and video data.
- Conducted and analyzed user studies to refine and align the tool's design, performing both topical and statistical analyses on user feedback.
- Led a changing team of 4-8 student developers to refine and integrate NLP and Computer Vision models that enabled the quantification of student collaboration skills.
- Code - https://github.com/tiilt-lab/chemistry-dashboard

Research Experience:

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

- Developed an innovative tool combining augmented reality, computer vision, and machine learning to recommend and display products in an AR environment.

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

- Created and tested an agent in a continuous domain to plan and learn to clean up a room using object-oriented Markov decision processes, exploring its feasibility compared to discrete domains.

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.

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

- Developed a simulation for a Vehicular Ad hoc Network to compare the performance of the 5.9 GHz band to unlicensed analog TV white space.

Publications:

- **Anderson, Khalil**. (2022). Real-time Feedback for Developing Conversation Literacy. In Proceedings of the 2022 International Conference on Multimodal Interaction
- Worsley, 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*.

Technical Skills:

- **Machine Learning:** PyTorch, TensorFlow, Scikit-learn, NLP, Reinforcement Learning, Prompt Engineering, Feature Engineering, Data Preprocessing, Model Evaluation
- **Programming Languages:** Python, Java, C/C++, JavaScript, R, Lisp
- **Web & Mobile Development:** Node.js, React, Angular, ReactNative, Flutter, HTML, CSS, Flask, Nginx, Android, iOS
- **Databases & APIs:** SQL, REST, GraphQL
- **Deployment:** AWS, Google Cloud Platform, Docker

Professional Experience:

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

- Contributed to the design of a mobile app, "STEM Quest," which tracked student progress in the HiTech curriculum and taught classes in various STEM subjects to high school students.

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

- Sold connected devices and provided expert product knowledge and customer service.

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

- Taught and assisted with STEM subjects for students in grades 6-12.