Khalil Anderson

PERSONAL DETAILS

Location	Chicago, IL
Mobile	(410) 487-4863
E-Mail	khanders@u.northwestern.edu

EDUCATION

Ph.D., Computer Science — 2018-present
Northwestern University, Evanston, Il
- GPA: 3.75/4.0
- Tiilt lab
- Research in Machine Learning

Bachelors of Science, Computer Science — 2014-2018
University of Maryland, Baltimore County, Baltimore, MD
- GPA: 3.54/4.0
- CMSC GPA: 3.9
- Minor in Biology

EMPLOYMENT

Research Assistant — 2018 - Present
Northwestern University - Tiilt Lab
PI: Marcelo Worsley
- Use Artificial Intelligence and Machine Learning to perform Multimodal Analytics to aid in improving educational outcomes across many different demographics.

Summer Research Intern — 2018
Adobe
Supervisor:Tak Yeon Lee
- Learned and used Google's Augmented reality system(ARCore) to simulate the value of a purchase in an environment while attempt to recommend the best products based on the user's environment

Teaching Assistant — 2017
University of Maryland, Baltimore County
Data Structures
- Held office hours weekly to assist students with projects, homework and concepts. Also grade projects and homeworks.

STEM Instructor and Mobile App Expert — 2016-2018
Howard County Library System
- Teached 6th - 12th grade students Computer Science, Math, Physics, and other STEM subjects. Also, aide in developing an app for the library system to help student study while out of the library and school.

Undergraduate Research Assistant — 2016-2018
University of Maryland, Baltimore County
Supervisor: Dr. Marie desJardins
- Used Markov Decision Processes(MDPs) for planning and learning to create new machine learning algorithms such as AMDPs and to expand on algorithms such as R-MAX and MAXQ.

Summer Undergraduate Research — 2017

University of Arizona
Supervisor: Dr. Larry Head

> Worked on simulating a Vehicular Adhoc Network(VANET) with different configurations of the physical layer to compare the performance of the currently licensed 5.9 GHz band to the unlicensed analog TV white space.

Sales Consultant   2015-2016
Best Buy, Columbia

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

Tutor   2015
University of Maryland, Baltimore County

> Introduction to Biology - Tutor students taking BIOL 121 and 122, the two introductory biology classes. Break down concept in an understandable way for students.

Summer Undergraduate Research Fellowship   2015
National Institute of Standards and Technology
Supervisor: Dr. Martin Burns

> Implemented the Green Button Standard on the NIST campus and wrote documentation for the implementation of the Green Button interface by creating 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.

Teaching Assistant   2013-2015
Howard County Library System

> Assist teachers at the library system with 6th - 12th grade Computer Science, Math, Physics, and other STEM subjects.

HONORS & AWARDS

- GEM Fellow

SERVICE

Volunteer   2014
College Gardens of Arbutus

> Help elementary students with their homework and other assignments and serve as a role model in a western Baltimore community

PUBLICATIONS

[1] **Anderson, Khalil** (2022). Real-time feedback for developing conversation literacy. In *ICMI*.

[2] **Anderson, Khalil**, Dubiel, T., Tanaka, K., and Worsley, M. (2019). Chemistry pods: A mutlimodal real time and retrospective tool for the classroom. In *ICMI*.

[3] **Anderson, Khalil**, Lusk, L., Hands, M., and Vanhoy, G. (2017). Validation of a crv model using tvws measurements. In *WinnComm*.

[4] Worsley, M., **Anderson, Khalil**, Melo, N., and JooYoung, J. (2021). Designing analytics for collaboration literacy and student empowerment. *Journal of Learning Analytics*.

CODING

C++	Advanced
Java	Advanced
Python	Proficient
C	Proficient
MySQL	Proficient
Assembly (x86, ARM)	Proficient
HTML	Proficient
Android	Proficient
Scheme	Proficient
CSS	Novice
PHP	Novice

REFERENCES

Available on request