

# Bryan Richlinski

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## EDUCATION

### **University of Kansas**

*Master to PhD: Computer Science*

Masters Expected Dec 2024

### **University of Missouri-Kansas City**

*Bachelor of Science: Computer Science*

Minor in Mathematics

Awarded July 2022

Summa Cum Laude

- Dean's List: Fall 2020, Spring 2021, Fall 2021
- Chancellors Transfer Scholarship
- Outstanding Senior in Computer Science Award, Spring 2022

### **Johnson County Community College**

*Associates of the Sciences: Emphasis in Computer Science*

Overland Park, KS

- Dean's List: 2019, 2020
- JCCC STEM Scholarship

Awarded July 2020

GPA 4.0

## EMPLOYMENT

### **University of Kansas**

*Graduate Teaching Assistant*

Jan. 2024-May 2024

- Administering Labs and Grading: EECS 168 Intro. to programming

*Graduate Research Assistant*

- Researching formal methods and Blockchain
- Researching applications of information entropy in program synthesis

Jan. 2023-Jan. 2024

May 2024-Present

### **University of Missouri-Kansas City**

*Undergraduate Research Assistant*

Jan. 2022-May 2022

- Performed research for NASA funded Computer Vision project to detect objects in hidden image puzzles for use in further research for satellite applications.
- Created novel dataset of hidden image puzzles for experimentation purposes
- Presented at the 2022 NASA Missouri Space Grant Consortium Conference

*Tutor*

Aug. 2021-Dec. 2021

- One-on-one tutoring in CS and Mathematics
- Collaborated with team members to enhance professional and academic skills
- Employed flexible and critical thinking skills to engage students with material

## NOTABLE PROJECTS

### **Masters Thesis**

Defending Dec 2024

- The use of heuristics based upon Shannon entropy for guiding enumerative program synthesis.

**STEM Scholarship Research Paper: NILM, JCCC**

Aug 2019-May 2020

- Researched and presented Non-Invasive Load Monitoring technology for the scholarship committee.
- Research focused on NILM core-concepts, implementation, performance, and uses.

**Python Deep Learning: Alzheimer's Classification Using Keras, UMKC**

Feb 2022-May 2022

- Created a novel dataset using nifti brain scans using 3D to 2D down sampling
- Delivered a convolutional image classifier using Keras
- Applied transfer learning to train network on novel dataset
- Worked with team to implement a front-end using flask and react.

**WORKSHOPS**

- Attended SRI International's 12<sup>th</sup> Summer School on Formal Techniques and Bootcamp.
- Worked as an assistant and presenter at the 2023 and 2024 GenCyber Summer Camp for Teachers.
- Attended Oregon Programming Languages Summer School 2024