

# Robert Kellems

Indianapolis, IN

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[LinkedIn](#) | [Website](#)

## EDUCATION

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**Indiana University**, Bloomington, IN

**GPA: 3.975/4.000, May 2023**

- *Bachelor of Science in Computer Science*  
Specialization: Artificial Intelligence
- *Bachelor of Science in Cognitive Science*
- **Honors:** Dean's List, Founders Scholar, Murray Austin Goldstone Scholarship for Undergraduate Research in Cognitive Science

## TECHNICAL SKILLS

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**Languages:** Python, Java, R, SQL, C/C++

**Platforms:** Windows, Linux

**AI & Data Science:** TensorFlow/Keras, Scikit-learn, Pandas, Matplotlib, Plotly, OpenCV

**Other:** AWS, Git, Jupyter, Docker

## ACADEMIC PROJECTS

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**AI Futures Artificial Intelligence Ground Vehicle Challenge**

**Spring 2023**

- Designed and implemented computer vision algorithms to enable autonomous movement using OpenCV, received 1st place in the undergraduate category

**JPMorgan Chase Data for Good Hackathon**

**Fall 2021**

- Applied various data analysis techniques in order to suggest potential investments for the improvement of disadvantaged schools in New York City

**Neural Networks for Sound Recognition**

**Spring 2021**

- Implemented several different deep neural network designs in order to classify environmental sound clips using Python and TensorFlow/Keras

## WORK EXPERIENCE

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**VIAVI Solutions**, Indianapolis, IN

**June 2023 - Present**

*AI/ML Intern*

- Employed machine learning models and digital signal processing techniques to group and analyze network performance data for the purpose of detecting impairments in modems
- Conducted extensive research on models for natural language to SQL translation and developed specialized tools to evaluate their performance

**Indiana University**, Bloomington, IN

**August 2022 - Present**

*Part-Time Researcher*

- Building an interactive web application which collects user data for the purpose of analyzing and modeling aspects of human sound perception

**USG Corporation**, Shoals, IN

**May 2019 - August 2019**

*IT Intern*

- Gained insight into the technological infrastructure underpinning a plant which is part of the largest gypsum manufacturing company in North America
- Assisted in reformatting several hundred company documents for a new database

## STUDENT INVOLVEMENT

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**WIUX Student Radio**, Bloomington, IN

**Fall 2019 - Spring 2023**

*Radio DJ, Assistant Analytics Director, IT Team*