

Robert Kellems

Indianapolis, IN

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

EDUCATION

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

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

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

VIAVI Solutions, Indianapolis, IN

June 2023 - August 2023

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

WIUX Student Radio, Bloomington, IN

Fall 2019 - Spring 2023

Radio DJ, Assistant Analytics Director, IT Team