Robert Kellems

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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:** Phi Beta Kappa, Dean's List, Founders Scholar, Murray Austin Goldstone Scholarship for Undergraduate Research in Cognitive Science

TECHNICAL SKILLS

Languages: Python, C/C++, Java, R, SQL, JavaScript
Platforms: Windows, Linux
AI & Data Science: TensorFlow/Keras, Scikit-learn, Pandas, Matplotlib, OpenCV
Other: Git, Jupyter, Docker, AWS

WORK EXPERIENCE

VIAVI Solutions, Indianapolis, IN **June 2023 - Present**

Software Development Engineer, ***September 2023 - Present***

- Develop and enhance an embedded software system which facilitates the flow of broadband spectrum data between cable network equipment and a front-end web application using C++
- Engage in comprehensive testing and debugging across all software and hardware components, ensuring excellent performance for customers and hardware vendors

AI/ML Intern, ***June 2023 - August 2023***

- Improved upon existing algorithms for analyzing network performance data using machine learning models and digital signal processing techniques
- 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

- Build an experimental web application which allows users to record and submit their subjective perception of various auditory phenomena by interacting with a novel interface
- Collect and interpret user data to reach conclusions on human auditory perception using R and statistical methods

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