Michael Rizig

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Profile

Software engineer with a fresh background in computer science and a passion for growth. Highly motivated and results driven. I am well-versed in the concepts and practices of programming, and am proficient in a variety of programming languages

Experience

FREELANCE | SEPTEMBER 2021 – PRESENT

- Recent Project: Developed a real-time data processing application for Gwinnett County Public Schools, integrating the Samsara Kafka Connector to consume Asset Location and Asset Speed events. Implemented data extraction, format checks, and storage in an SQL server database, with separate tables for valid and rejected events. Utilized Docker for containerized deployment, ensuring consistent and scalable solutions. Enhanced system efficiency with real-time monitoring and error handling, transitioning from API polling to Kafka-based streaming for near real-time visibility into school bus operations. Gained hands-on experience with Python/C# and full-stack development, contributing significantly to operational efficiency.

IT INTERN | DELTA COMMUNITY CREDIT UNION | MARCH 2020 – AUGUST 2021

- As an IT Intern at DCCU I had a hand in creating and managing large scale IT deployments, managing system monitoring and health metrics, and developing in-house fraud detection software.
- Helped with implementing database security and Redhat Linux administration and management. Had a hands on role in Data Compilation, and using data engineering techniques to understand trends.

Education

MASTER OF SCIENCE IN COMPUTER SCIENCE | DEC 2025| KENNESAW STATE UNIVERSITY, ATLANTA GA (DUAL DEGREE PROGRAM)

BACHOLER OF SCIENCE IN COMPUTER SCIENCE | MAY 2025 | KENNESAW STATE UNIVERSITY, ATLANTA GA. (3.81 GPA) CONCENTRATION IN ARTIFICIAL INTELLIGENCE

Recent Projects : Click here to view all

- **LSTM Built from Scratch**

Long short-term memory (LSTM) is a type of recurrent neural network (RNN) that can process and retain information over multiple time steps. LSTMs are used in deep learning and artificial intelligence to learn, process, and classify sequential data, such as text, speech, and time series. Designed to prevent the neural network output from decaying or exploding as it cycles through feedback loops.

- **Logistical Regression Sentiment Analysis**

Logistic Regression Classifier Algorithm in Python used to predict sentiment of reviews (either negative or positive). Classification, training, and testing using a real Amazon product review dataset. Optimization comparison of hand-picked features against embeddings based features. HuggingFace Transformers utilized for embedding extractions.