

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: Java, C, C++, Python, Swift, JavaScript, HTML.

Experience

FREELANCE | SEPTEMBER 2021 – PRESENT

- 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.

INTERN | DELTA COMMUNITY CREDIT UNION | JUNE 2019 – AUGUST 2021

- A DCCU, other than the typical daily tasks of an intern/apprentice, I had a hand in using and reviewing bank level secure software. I had experience with specific cybersecurity training and practices and helped in upkeep and maintained of the banks computer systems. I helped with day-to-day operations of the branch, as well as completed extensive anti-phishing and other scam training.

Education

MASTER OF SCIENCE IN COMPUTER SCIENCE | DEC 2025| KENNESAW STATE UNIVERSITY, KENNESAW GA

BACHOLER OF SCIENCE IN COMPUTER SCIENCE W/ CONCENTRATION IN ARTIFICIAL INTELLIGENCE | MAY 2025 | KENNESAW STATE UNIVERSITY, KENNESAW GA.

Recent Projects : [Click here to view all](#)

- **YoloV8 Vehicle detection (Python)**
Live, On-Drone vehicle tracking and detection software using VisDrone Data.
- **RayTracing/PathTracing (C)**
This project implements 2D ray tracing and path tracing algorithms in C (SDL3 2025)
- **LSTM Built from Scratch (Python)**
Long short-term memory (LSTM) Model built from the ground up in Python. No Libraries.
- **K-cal (Swift)**
k-cal is a health-focused iOS app designed for tracking, meal prep, and scanning foods.
- **Compiler Built from Scratch (Java)**
Custom compiler from scratch to support a custom programming language.
- **Portfolio Website (JavaScript/HTML/CSS)**
Retro-MacOS themed portfolio website that houses my projects and research papers.