

EDUCATION

Kennesaw State University*Master of Science in Computer Science*

Kennesaw, GA

*Expected May 2022***Kennesaw State University***Bachelor of Science in Computer Engineering*

Kennesaw, GA

*Awarded May 2020***University of North Georgia***Associate of Science in Engineering*

Dahlonega, GA

*Awarded May 2017*SKILLS

Languages (Strong): Python, Go, Julia**Technologies:** Docker, Git, Linux, Nix**Languages (Proficient):** C, C++, Java**Environments:** Github, TensorflowEXPERIENCE

- **NCR** Atlanta, GA
Software Engineer Intern *May 2021 - Present*
 - Constructed a Go retail microservice to allow selling lottery tickets at NCR self-checkout terminals
 - Reduced PostgreSQL database load by caching frequently requested data in Redis
 - Developed a machine learning solution to reduce self-checkout transaction times and costs
 - Helped drive innovation by submitting 2 invention disclosure reports to the patent review board
 - Improved developer productivity by creating scripts to generate code for wrapping business logic with commonly used features such as logging, validation, and tracing
- **Kennesaw State University** Kennesaw, GA
Graduate Research Assistant *May 2020 - Present*
 - Attended 2 virtual conferences to present research publications
 - Bolstered interdisciplinary research at KSU by collaborating with other research labs
 - Proposed a solution for efficient sampling of experiences for training reinforcement learning models
 - Created a machine learning application for rehabilitation of currently unsupported stroke patients
 - Expanded a clustering algorithm to more effectively initialize centroids for segmentation of hyperspectral images
 - Developing a machine learning pipeline to support myrmecological research based on texture analysis methods

PROJECTS

- **Nutriverify (Patent Pending)** NCR Global Hackathon
Summary: Analyzes nutrition info with computer vision techniques *Summer 2020*
 - Achieved third place in global hackathon with over 2400 participants
 - Worked on a team with a diverse skill set to deliver a vision system demonstration
 - Prototyped Python backend with Flask and OpenCV to analyze images and serve extracted information
- **EMG-Based Wrist Movement Prediction** IEEE BIBE 2020
Summary: Predicts extension or flexion of the wrist to promote stroke patient rehabilitation *Fall 2020*
 - Cooperated with local startup *Motus Nova* and KSU ECE department
 - Devised a data collection method and automatically labelled collected data from 4 patients
 - Designed an algorithm and deployed to an embedded system to predict the direction of motion in real-time

COMMUNITY

- Awarded the rank of Eagle Scout by Boy Scouts of America in 2014
- Attended 8 hackathons including 5 virtual hackathons
- Active member of the KSU Apprentice Club, a professional practice club for Computer Engineers