Noah Gardner

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github.com/ngngardner

EDUCATION

Kennesaw State University — Kennesaw, GA
Master of Science in Computer Science — *Expected May 2022*

Kennesaw State University — Kennesaw, GA
Bachelor of Science in Computer Engineering — *Awarded May 2020*

SKILLS

Languages: Python, Go, Julia, C, C++, Java   **Technologies**: Docker, Git, Linux, Nix
Other: Machine Learning, Tensorflow, Flask, Google Cloud Platform, SQL

EXPERIENCE

Software Engineer Intern — Atlanta, GA
NCR — *May 2021 - Present*

- Constructed a Go retail microservice to corner a percentage of a $16 billion market by allowing selling lottery tickets at NCR self-checkout terminals
- Reduced PostgreSQL database load by 10% by caching frequently requested data in Redis
- Helped drive innovation with 3 approved invention disclosure reports submitted to the patent review board

Graduate Research Assistant — Kennesaw, GA
Kennesaw State University — *May 2020 - Present*

- Proposed a solution for efficient sampling of experiences for training reinforcement learning models
- Expanded a clustering algorithm to initialize centroids up to 20% more effectively for image segmentation
- Developing a machine learning pipeline to support ecological 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