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 (Magna Cum Laude)	*Awarded May 2020*

SKILLS

Languages: Python, Go, Julia, Nix, LaTeX
Technologies: Git, Linux, Docker, Tensorflow, OpenCV, SQL, GCP
Others: Machine Learning, API Design, Eagle Scout

EXPERIENCE

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

- Constructed a Go retail microservice for selling lottery tickets to corner a percentage of the global lottery market
- Improved developer productivity by automatically generating decorators for business logic with commonly used features such as logging, validation, caching, and tracing
- Submitted a machine learning based invention to reduce self-checkout transaction times and costs

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

- Proposed a solution for efficient sampling of experiences for training reinforcement learning models
- Created a reinforcement learning environment to allow an agent to learn to make classifications based on EMG data
- Expanded a clustering algorithm to initialize centroids up to 20% more effectively for image segmentation
- Developed 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