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
- Accomplished 3 approved inventions and 2 patents submitted through 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
- 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

Software Engineer Intern — Atlanta, GA
NCR — *May 2020 - August 2020*

- Created a backend web application for a new mobile self-checkout solution
- Achieved third place in the NCR Global hackathon with over 2400 participants
- Accomplished 1 approved invention accepted as a patent through the patent review board

Research Assistant — Kennesaw, GA
Kennesaw State University — *Jan 2019 - May 2020*

- Developed a serial interface from a microcontroller to a motor contoller to create an autonomous wandering robot
- Improved robot wandering algorithm efficiency by 70% with a key image processing insight
- Collaborated with other assistants to create research proposals and receive funding

RESEARCH

EMG Based Simultaneous Wrist Motion Prediction Using Reinforcement Learning *October, 2020*
Noah Gardner et al. *IEEE 20th International Conference on Bioinformatics and Bioengineering*

ISODS: An ISODATA-Based Initial Centroid Algorithm *March, 2021*
Noah Gardner et al. *The 10th International Conference on Information*

PATENT APPLICATIONS

NutriVerify by Noah Gardner et al. (equal contribution)	NCR, *September 2020*
Paperless Lottery Tickets by Noah Gardner et al. (equal contribution)	NCR, *September 2021*