Noah Gardner

Software Engineer · Research Scientist

✉ ngardn10@students.kennesaw.com   ngngardner   Noah Gardner

Education _____

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

Kennesaw State University   Kennesaw, GA
Bachelor of Science in Computer Engineering (Magna Cum Laude)   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 _____

Graduate Research Assistant   Kennesaw, GA
Kennesaw State University   May 2020 - July 2022
- 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 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

Software Engineer Intern   Atlanta, GA
NCR   May 2020 - August 2020
- Created a backend web application for an innovative mobile self-checkout solution
- Programmed maintainable and efficient code that impacted new microservice products by serving as a template
- Achieved third place in the NCR global hackathon with over 2400 participants with a nutrition application

Research Assistant   Kennesaw, GA
Kennesaw State University   Jan 2019 - May 2020
- Developed a serial interface from a microcontroller to a motor controller 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

Innovation Technologist Intern   Atlanta, GA
Emerson   May 2019 - August 2019
- Programmed analytics operations system to run on refrigeration control systems data at user-specified intervals
- Developed a web-based dashboard for technicians to easily visualize analytics results
- Stored data in SQL relational database and cached frequently requested data

Research _____

[1], [2], [3]

[1] N. Gardner, "Definition of Terms," 2022.
[2] N. Gardner, "ISODS Research," 2021.
[3] N. Gardner, "EMG Research," 2020.

Patent Applications _____

NutriVerify
NCR   September 2020

Paperless Lottery Tickets

NCR   September 2021

Targeted Gamified Ecommerce Service

NCR   November 2021