Nicole Hernandez

Permanent Resident | Atlanta, GA | (912) 541-1768 | g.nicole@gatech.edu | https://gnicoleh.github.io

Education

Georgia Institute of Technology | Atlanta, GA   *January 2022 – December 2024*
Bachelor of Science in Computer Science, GPA 3.64   Dean's List
- Coursework: Systems & Networks, Design & Analysis of Algorithms, Computer Graphics (Fall 2023), Information Visualization (Spring 2024), Computer Modeling Algorithms (Spring 2024), Computer Simulation (Spring 2024)

Georgia Southern University | Statesboro, GA   *Graduated December 2019*
Bachelor of Science in Civil Engineering, GPA 3.97   Summa Cum Laude

Experience

Amazon Robotics AI   *May 2023 – August 2023*
Software Development Engineering Intern   Nashville, TN
- Analyzed a dataset of 10,000+ samples against segmentation, CRAFT, and OCR deep learning models. *(Python)*
- Plotted data visualizations of key findings derived from the analysis. *(Python, Jupyter Notebook, Matplotlib)*
- Authored a comprehensive research document outlining the data analysis procedure and insights derived.
- Designed a text-from-image recognition service using pre-trained machine learning models. *(Python)*
- Implemented said service to reduce operational costs in fulfillment centers by around $50M annually. *(Python)*
- Reduced annotation costs and Takt time by 80% by designing & implementing an annotation pipeline to improve existing machine learning models. *(Python, AWS Lambda, SageMaker Ground Truth, DynamoDB)*
- Authored clear and detailed design documents for the detection service and annotation pipeline, outlining approaches and integration tests.

The Home Depot - OrangeWorks   *August 2022 – December 2022*
Software Engineering Intern   Atlanta, GA
- Used ROS to analyze LiDAR data obtained from a robotic quadruped scanning different distribution centers.
- Extracted point clouds and improved scanning accuracy by reducing the speed of the quadruped. *(Python)*
- Created and presented an application prototype to stakeholders, increasing financial support by 20%. *(Figma)*
- Designed several unit and integration tests, resulting in a 99% uptime when running the service. *(Python)*

Cardano Blockchain (self-employed)   *July 2020 – November 2020*
Stake Pool Operator   Remote
- Managed three stake pool nodes on Google Cloud Platform with over $3.5M in combined staked assets.
- Generated sensitive files in an air-gapped offline machine and stored them in a 256-bit AES encrypted device.

Georgia Department of Transportation   *February 2020 – December 2021*
Civil Engineer 2 – Preconstruction, Design   Atlanta, GA
- Led the design bridge replacement projects from concept to final submission and presented to stakeholders.
- Developed prioritization skills to make the best possible decision to deliver results above company standards.
- Analyzed problems by evaluating information and resources; developed effective, viable solutions to problems.

Projects

Game Suite | C#, Unity   *July 2022*
- Designed scenes, game objects, scripts, prefabs, and animations as required, maintaining proper file organization.
- Implemented 2-week long sprints agile methodology and applied project management using ZenHub for GitHub.
- Followed SOLID and GRASP principles as well as design patterns during the development process.

Jordle | Java, JavaFX   *April 2022*
- Developed a playable Java Wordle UI to progressively guess a random 5-letter word correctly.
- Defined an inner class which overrides a KeyEvent handler whenever the user releases a key.

Skills

Programming Languages: Python, Java, C#
Technologies: AWS Lambda, SageMaker Ground Truth, PyTorch, Tensorflow, Computer Vision, DynamoDB
Languages: Spanish (native), English (fluent), Japanese (intermediate), Italian (beginner)