andmenendez@gmail.com 301 592 7431

Andres M Menendez

School and Degrees

Georgia Institute of Technology

Online Masters In Computer Science Candidate | fall 2022 | GPA: 3.90 - Specialization in Machine Learning

Bachelor of Science in Mechanical Engineering | spring 2018 | GPA: 3.13 - Minor in Energy

Professional Experience

WithHansa Startup Front End Lead Developer | summer 2022 - current

Founded, designed, created and developed the entire Front End framework for WithHansa Developed hooks, API endpoints, and built connections to third party applications.

Maintained, organized, and refactored codebase and documentation to be scalable and readable.

Branch.vote Startup Front End Developer | spring 2021 - fall 2021

Volunteered work to help develop React.js components for Branch.vote website Implemented an AWS Lambda hook to split audio at provided time markers and save to AWS S3 bucket

PIC Group CAD Developer | summer 2018 - spring 2019

Created and completed full system P&IDs via AUTOCAD from field drawings Verified and located telemetry devices for power plant systems

Cupertino Electric Internship | summer 2017

Automated processes to minimize run-time and human error via excel VBA macros Optimized P&ID take-off process via kNN Image Reading Python Al Tool

Project Experiences

AlCrowd Multi-Agent Behavior Challenge | fall 2021

Built and upgraded supervised and unsupervised neural network models with PyTorch to predict classifications

Designed and implemented loss-modules to deal with class imbalances

Trained tested grees validated and presented multiple supervised and unsupervised model performances.

Trained, tested, cross-validated and presented multiple supervised and unsupervised model performances Scored in the top 25 performances of the MABe Challenge 2

Reinforcement Learning Explorations | spring 2021

Modeled and trained a DQN to solve the OpenAl Lunar Lander via TensorFlow Tested, monitored and optimized power performance of active sub-systems Created and programed control systems for lighting and circulation pumps

Hydroponics Startup Electrical Systems Engineer | spring 2018

Designed entire 200 W electrical system to run pumps, lights and indicators Tested, monitored and optimized power performance of active sub-systems Created and programed control systems for lighting and circulation pumps

Research Energy Modeling at Georgia Tech (STEEL) | spring 2016 - spring 2018

Designed, programmed and tested theoretical models and simulations via MATLAB Modeled a cross-variable parametric analysis to optimize system variables Acknowledged in a published academic paper under the Journal of Power Sources¹

Engineering Portfolio

Website Portfolio | https://www.andmenendez.com Github | https://github.com/andmenendez

Technical and Soft Skills

technical | Python, C#, Javascript, HTML, CSS, Git, SQL, AWS S3 and Lambda, Java, Ruby, MATLAB, HCI/psychology libraries | PyTorch, Tensorflow, Matplotlib, Numpy, Pandas, SQL, React, Django, Flask, Jupyter Notebooks software | Heroku, Jira, pgAdmin, CAD (Solidworks, UG-NX, Autodesk), FEA (ANSYS), Unity, Blender other | climbing, alpinism, sailing, writing, philosophy, music production, bilingual (Spanish), barista