

# Andres M Menendez

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## 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

## Professional Experiences

### Neeva.com Software Developer | fall 2022 - current

Developed critical front page and funnel for new branding with full responsiveness and multi-language support  
Implemented wide range of customer facing responsive UI pages, components and tooling  
Constructed and redesigned pages with A/B testing to allow for user conversion funnel analysis  
Built modal and banner notices across the entire site and application for marketing and user notices.  
Redesigned, documented and owned email workflow for customer signup flow and outreach (mailchimp, mandrill)  
Explored projects with GPT3 to translate text to SQL with langchain and streamlit

React, Typescript/Javascript, HTML/CSS, MJML, i18n-next, GraphQL, Golang, GPT, Python

### WithHansa.com Startup Front End Developer | summer 2022 - current

Developed, created and designed the foundational and initial front end platform for the WithHansa application  
Owned, built and implemented full multi-language support infrastructure for entire application with documentation  
Developed hooks, API endpoints, and built connections to third party applications and integrated their services.  
Maintained, organized, and refactored codebase with documentation to be scalable and readable.  
Overhauled and rebuilt pages for web responsiveness, and mobile-targeted user experience

React, Typescript/Javascript, HTML, tailwind.css, remix.run, i18n-next

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

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

React, Typescript/Javascript, Redux, HTML/CSS, AWS Lambda, Redux

## Academic Experiences

### AICrowd Multi-Agent Behavior Challenge, Data Engineer | fall 2021

Built supervised and unsupervised neural nets with PyTorch to predict behavioral classifications  
Designed iteratively and implemented data pipeline methods, ie loss-modules to deal with class imbalances  
Validated multiple supervised / unsupervised models via network analysis, anomaly detection, and active learning  
Presented data visualizations and scored in the top 25 performances of the MABe Challenge<sup>1,2</sup>

Python, PyTorch, Jupyter Notebooks, Numpy, Pandas

### Reinforcement Learning Explorations, Data Analysis | spring 2021

Modeled and trained a DQN to solve the OpenAI Lunar Lander via TensorFlow / Keras  
Explored optimal parameter tuning with an RL agent to uniquely adapt the TD method to a simple problem  
Implemented dimensionality reduction methods, PCA, ICA, SVD and clustering in discussion paper  
Tested learning strategies to pursue game theory optimal policies with respect to different agent attitudes  
Evaluated Ada-Boosting, Decision Trees, kNearest Neighbors, MLPs, and SVDs in discussion comparison paper

Python, Tensorflow, Numpy, Pandas

## Engineering Portfolio

Website Portfolio | <https://www.andmenendez.com>

Github | <https://github.com/andmenendez>

## Technical and Soft Skills

**technical** | Typescript/Javascript (proficient), Python (proficient), HTML/CSS/MJML/Tailwind.css (proficient), SQL (intermediate)

**libraries** | React, Next.js, Remix.run, Git, GraphQL, Django, Redux, AWS S3/Lambda,

**other** | climbing, alpinism, sailing, writing, philosophy, music production, bilingual (Spanish), barista, warhammer

- [1] <https://github.com/andmenendez/MABe-Challenge-Submission>
- [2] <https://www.aicrowd.com/challenges/multi-agent-behavior-representation-modeling-measurement-and-applications/problems/mabe-task-1-classical-classification/submissions/167477>
- [3] Alexander Limia, et al, "A dual-stage sodium thermal electrochemical converter (Na-TEC)", Journal of Power Sources 371 (2017) 217-224