

# Aiden Melone

## Computer Scientist

## EXPERIENCES

### Researcher & Developer – Dr. Jenifer Kim

*Georgia Tech Research / Aug 2022 – Dec 2022; Jan 2024 – Present*

- Assisted in development of data dashboard for results from a VR experience for Autistic individuals to practice professional skills with. [UIST 2023](#).
- Currently developing a fine-tuned RAG model to automate neurotypical assignment conversion process for Georgia Tech's [Excel](#) program.
- Technologies Involved: Vue, LangChain, Python, Pandas, NumPy

### Software Development Engineer Intern

*Amazon, Remote / May 2022 – Aug 2022*

- Onboarded internal teams and built infrastructure for the customer facing notification hub in the Amazon Alexa Developer Console.
- Required internal communication and coordination among various independent internal teams.
- Technologies Involved: TypeScript, AWS (CDK, Lambda, EventBridge)

### Developer & Documenter - Smart Chess AI

*CS 4641, Georgia Tech / Aug 2021 – Dec 2021*

- Developed decision tree and neural network approaches to define why chess moves are good or bad using data from Lichess' puzzle database.
- Research Report and code base available [here](#).
- Technologies Involved: TensorFlow (Keras), NumPy, Pandas.

### Team Lead – Mobile App Developer

*Experimental Flights VIP / Aug 2020 – Dec 2021*

- Led development of a client-facing Uber-esque android application which will allow users to manage the delivery of packages via drones.
- Team lead position involved the management of weekly meetings and job assignments to ~6 other members, along with other sub team interactions.
- Languages/Technologies Involved: Java, Kotlin, Google Maps API, Android Studio.

## Accomplishments

### APEC & Google Asia 2020 App Challenge/[DMAP Alumni](#)

*3<sup>rd</sup> Place - Oct 2020*

- Became the first US team to ever podium in the [international APEC 2020 App Challenge](#) by building the smart inventory management web application [Octodash](#).
- Handled the creation of a news aggregation algorithm within the Python backend and worked on connecting the backend to the React frontend via the Flask framework.

### Emory + GT Covid Hackathon


*Honorable Mention - Jan 2021*

- Worked with 3 other GT students and 1 Emory student to create the accessible contact tracing web application for schools [ProTracker](#). (MERN Stack)
- Worked Primarily on front-end user experience (React.js), designing logos (Photoshop), and connecting backend features (Node) to the front end.


### HackGT 8

*Oct 2021*

- Worked with 3 other GT students to create the novel retail gamification project [MineCart](#).
- Developed a server-side Minecraft plugin (Java) which interacted with a MySQL database (hosted on AWS), which ran in parallel to a web app (React + Node).

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## LANGUAGES

Java

Python (TF, Pandas, NumPy)

JS/TS (React, Node)

C#

Kotlin

## EDUCATION

### BS / Computer Science Minor / Psychology

Georgia Institute of  
Technology – Highest  
Honors – 3.75 GPA

Aug 2020 – May 2024

Relevant Coursework:

- Machine Learning
- Human Computer Interaction
- Deep Learning