Matthew DeGuzman

he/him/his

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EDUCATION

University of Florida   August 2021 – December 2024

Bachelor of Science in Computer Science   *Gainesville, FL*

- GPA: 3.94
- Minors: Math
- Relevant Courses: Graph Theory, Software Engineering, Computer Organization, Data Structures and Algorithms
- Honors and Awards: Dean's List

EXPERIENCE

Microsoft   May 2023 – August 2023

Software Engineer Intern   *Seattle, WA*

- Broadening the Azure Foundation Model capabilities by contributing an AzureML LLM wrapper to the open-source framework LangChain
- Allowing more Azure models to work with RAG (Retrieval Augmented Generation) by refactoring RAG pipelines

Microsoft   May 2022 – August 2022

Explorer Intern (Software Engineer + Product Manager)   *Seattle, WA*

- Gained experience with the software engineering and product manager role by swapping positions every 4 weeks
- Found and implemented an application of GPT-3 to help disabled and neurodivergent users navigate computer interfaces
- Made data processing and output analysis components in AzureML to create scalable machine learning pipelines that finetune GPT-3

PROJECTS

GatorGuessr   January 2023 – May 2023

- Created a website that mimics the Geoguessr game functionality within the city of Gainesville
- Used Azure to create and manage a MySql database and worked with Go to create a REST API

Content Generator   September 2022 – February 2023

- Created an application that automates the video generation process
- Worked with the Reddit API, Azure Cognitive Services, MoviePy, and ffmpeg to fetch content, create audio, and render videos

Tic-Tac-Toe AI   December 2021 – January 2022

- Created an unbeatable tic-tac-toe bot and learned about AI by implementing the minimax algorithm
- Gained experience with JavaScript, HTML, and CSS

RESEARCH

Technical Research Project   January 2023 – May 2023

- Worked with Dr. Amanpreet Kapoor to create open educational resources that will be added to the Data Structures and Algorithms course at the University of Florida and distributed internationally
- Created technical interview questions and produced studio recordings to outline and review my solutions

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML, CSS, Go
Libraries/Frameworks: React, Next, Node, Tailwind, LangChain
General: Linux, Git