

# Matthew DeGuzman

he/him/his

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## EDUCATION

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### 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

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### 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
- Refactoring Retrieval Augmented Generation pipelines by allowing Azure Foundation Models to be used as completion models
- Expanding the AzureML Prompt Flow scope by writing a tool that allows users to leverage Azure Foundation Models

### Microsoft

May 2022 – August 2022

*Explorer Intern (Software Engineer + Product Manager)*

*Seattle, WA*

- Learned about the software engineering and product manager role by switching between the positions
- Found and implemented an application of GPT-3 to help disabled and neurodivergent users navigate computer interfaces
- Constructed data processing and output analysis components in AzureML to create scalable machine learning pipelines that finetune GPT-3

## PROJECTS

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### GatorGuessr

January 2023 – May 2023

- Developed 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

- Made 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 subtitles, and render the 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

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### 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

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**Languages:** Python, Java, C++, JavaScript, HTML, CSS, Go

**Libraries/Frameworks:** React, Next, Node, Tailwind, LangChain

**General:** Linux, Git