

Maxwell Liu

Ellicott City, MD

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EDUCATION

University of Maryland, College Park

2022-2025

Information Science, B.S.

- GPA: 3.5

University of Maryland, Baltimore County

2020-2022

Computer Science, B.S.

WORK EXPERIENCE

University of Georgia

July 2024- Aug. 2024

Data Analyst

- Developed and optimized MATLAB scripts to align with research requirements for signal processing
- Developed and implemented a data cleaning pipeline to preprocess laboratory CSV data for analysis
- Facilitated training and coordination on software tools for laboratory team members

T-Mobile

June 2023- Aug. 2023

Front-End Engineer Intern

- Worked on a web application for visualizing cell tower locations and prospective tower placements, successfully deployed for internal use within the company.
- Worked in Angular framework: Used Angular and Google Map APIs, Typescript, CSS, HTML, Node.js, npm

Apex Mortgage, LLC

June 2021- Sep. 2021

Loan Processor Assistant

- Utilized Calyx software and various pipelines to process FHA and conventional mortgage loans.
- Organized and collected documents to send to the closing team to process mortgage loans.

PROJECTS

Discord Bot

Python Application

- A Python project in PyCharm using Discord API that will store data and perform operations based on application commands.

COVID Data Visualization

Web Application

- Created an interactive COVID-19 statistics map through Google Map API, displaying data by country and month. The back-end database is managed by Supabase and the front-end is done in React.

Clickstream Visualization

Python Project

- Created data visualizations including Sankey Diagrams and heatmaps for two different clickstream datasets. One of the datasets was a sample of the June 2025 clickstream data for Wikipedia. Generated transition probability matrices from sequence modeling using Markov chains for each dataset, and exported results as CSV files.

ACTIVITIES

UMD Chess Club

2022-Present

Member

- Play chess with other students during meetups, and practices through online games and tournaments hosted on chess.com. Play at an intermediate level (1500+).

Drummer

2017-Present

Hobby

- Played percussion through high school concert band and percussion ensemble at an intermediate level.

SKILLS & INTERESTS

Languages: English, Mandarin Chinese

Programming Languages: Java, Python, C++, R, SQL, TypeScript, HTML, CSS

Interests: Music, Chess, Logic Games, UI/UX Design, Programming, Data Science