

Jotham Teshome

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Education

Michigan State University

Master of Science, Computer Science

Expected, May 2024

GPA: 4.0

Michigan State University

Bachelor of Science, Computer Science

Minor, Business

Dec 2022

GPA: 3.69

Experience

Graduate Teaching Assistant

Sep 2023 – present

MSU College of Engineering

- Evaluated and graded assignments to uphold rigorous academic standards
- Conducted informative and interactive office hour sessions, offering guidance and addressing student inquiries
- Provided students with helpful insight on GitLab, contributing to a productive learning environment by promptly responding to their questions

Software Engineering Intern

Sep 2022 – Dec 2022

MSU Senior Capstone

- Developed a software project for a customer by working with a team of six students to enhance customers' banking experience
- Designed and implemented Digital Transformation of Member Data by working closely with the customer to bring their vision for the product to life

Undergraduate Researcher

Sep 2022 – Dec 2022

NSF REU Project

- Analyzed a research paper by taking notes and asking questions to my PhD student mentor to better understand the research topic
- Created a 3D model using the 3D modeling software TinkerCAD to develop a prototype object based on the research topic

Projects

Identifying and Removing Toxic Comments *Python*

April 2023

- Developed neural-network based text classification system to identify toxic and non-toxic content
- Used a multi-step approach, including a secondary neural network, to classify words for toxicity within sentences with up to 91% accuracy

Part-Of-Speech Tagger *Python*

April 2023

- Implemented and evaluated neural network models, specifically RNN and LSTM, for POS tagging
- Trained the models on tagged sentences of the Penn Treebank dataset
- Achieved up to 89% accuracy in evaluation tests

Portfolio Website *HTML, CSS, JavaScript*

Sep 2022

- Created a website using HTML, CSS, and JavaScript to display projects I have worked on
- Increased the accessibility of my website by using responsive sizing to improve the mobile viewing experience

Skills

- **Programming Languages:** Python, C++, C, JavaScript, Dart
- **User Interface:** HTML, CSS
- **APIs/SDKs/Frameworks:** Flutter, Android SDK, iOS SDK
- **Languages:** English (fluent), French (novice)