

Jotham Teshome

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EDUCATION

Michigan State University Master of Science, Computer Science	January 2023 - August 2024 GPA: 3.85
<ul style="list-style-type: none">Relevant Coursework: Natural Language Processing, Computer Vision, Pattern Recognition, Deep Learning, Algorithmic Graph Theory, Distributed Systems	
Michigan State University Bachelor of Science, Computer Science, Minor in Business	September 2019 - December 2022 GPA: 3.69
<ul style="list-style-type: none">Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Algorithm Engineering, Web Application Development, Database Systems	

WORK EXPERIENCE

Stefanini Group - Application Development Intern, SAP Integration	April 2025 - Present
<ul style="list-style-type: none">Created a Python accelerator to automate the generation of SAP Business Process Documents, cutting documentation time by 70%Integrated backend functions with an existing AI chatbot, enabling automation through conversational interfaces using REST APIsDesigned and executed a phased migration strategy to merge AWS APIs into a unified Azure system, improving reliability by 25%Integrated a Plant Assistant tool with SAP PM solutions to improve process automation, reducing manual errors by 15%	
Versive - Machine Learning Engineer (Project-Based)	June 2024 - December 2024
<ul style="list-style-type: none">Built CNN models in PyTorch to detect tumors in MRI scans, enhancing diagnostic accuracy by 10% and supporting early detectionBoosted model performance by 10% through YOLOv8 segmentation to focus on critical tumor regions during predictionApplied transfer learning with pretrained ImageNet weights to reduce training time 30% and improve precision across scans	
Michigan State University - Graduate Teaching Assistant	August 2023 - May 2024
<ul style="list-style-type: none">Guided students in building responsive front-end projects using HTML, CSS, and JavaScriptImproved student project outcomes by 7% through office hours and support with Flask back-end design and GitLab version controlReviewed and graded technical assignments for the Web Application Development course, ensuring rigorous academic standards	
Versive - Software Engineer (Project-Based)	January 2023 - July 2023
<ul style="list-style-type: none">Developed a secure hospital app with AWS Amplify and RDS, improving MRI access times and reducing verification time by 20%Built Flask APIs and connected MySQL backend with React frontend for seamless user experienceEnsured patient data security with encryption, RBAC, and MFA, achieving 100% compliance with HIPAA standardsLeveraged Docker containers and Git for deployment and version control, improving development cycle efficiency by 15%	
MSU Federal Credit Union - Software Engineer Intern	September 2022 - December 2022
<ul style="list-style-type: none">Designed a peer-to-peer transfer system in Flutter/Dart with QR code and NFC support, increasing user transaction speed by 25%Integrated Google Places API to send personalized deal notifications based on shopping patterns, boosting app engagement by 18%Contributed to app improvements using Flutter, Dart, and SQL, enhancing overall app stability and reducing crash rates by 12%	

PROJECTS

Identifying and Removing Toxic Comments, Python, TensorFlow

- Built an **RNN** model in **TensorFlow** to detect toxicity in online comments, collaborating with a peer for model architecture
- Generated subword embeddings using **FastText** to better detect potential variations of toxic words in comments
- Achieved a word-level classification accuracy of **91%** using trigram embeddings in our multi-appearance word model
- Developed an automated system to censor toxic words to improve the efficiency of real-time content moderation

Portfolio Website, NodeJS, NextJS, ReactJS, Bootstrap, JavaScript

- Designed a responsive portfolio website using **ReactJS** to display my experience and various projects
- Optimized performance through static site generation using **NextJS** to ensure a quality user experience
- Integrated a modern UI using **Bootstrap** to create a polished, aesthetically pleasing interface

SKILLS

Programming:	Python, C/C++, Java, Kotlin, CUDA, JavaScript, HTML/CSS, SQL, Dart
AI/ML:	PyTorch, TensorFlow, Scikit-learn, Numpy, Pandas, YOLOv8, OpenCV, FastText, Generative AI
Web & App Dev:	React, Next.js, Node.js, Flask, Flutter, Bootstrap
Cloud/DevOps:	AWS, GCP, Azure, Docker, Git, CI/CD, REST APIs
Tools & Platforms:	Linux, Unix, Windows, macOS, Bash, Terminal, SAP, OpenAI