Jotham Teshome

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EDUCATION

Michigan State University

Master of Science, Computer Science

January 2023 - August 2024

GPA: 3.85

 Relevant Coursework: Natural Language Processing, Computer Vision, Pattern Recognition, Deep Learning, Algorithmic Graph Theory, Distributed Systems

Michigan State University

September 2019 - December 2022

Bachelor of Science, Computer Science, Minor in Business

GPA: 3.69

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

- Created a Python accelerator to automate the generation of SAP Business Process Documents, cutting documentation time by 70%
- Integrated backend functions with an existing Al chatbot, enabling automation through conversational interfaces using REST APIs
- Designed 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

- Built CNN models in PyTorch to detect tumors in MRI scans, enhancing diagnostic accuracy by 10% and supporting early detection
- Boosted model performance by 10% through YOLOv8 segmentation to focus on critical tumor regions during prediction
- Applied 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

- Guided students in building responsive front-end projects using HTML, CSS, and JavaScript
- Improved student project outcomes by 7% through office hours and support with Flask back-end design and GitLab version control
- Reviewed and graded technical assignments for the Web Application Development course, ensuring rigorous academic standards

Versive - Software Engineer (Project-Based)

January 2023 - July 2023

- 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 experience
- Ensured patient data security with encryption, RBAC, and MFA, achieving 100% compliance with HIPAA standards
- Leveraged 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

- 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, TypeScript, HTML, CSS, SQL, Dart

Al/ML: PyTorch, TensorFlow, Scikit-learn, Numpy, Pandas, YOLO, OpenCV, FastText, OpenAl API

Web & App Dev: React, Next.js, Node.js, Flask, Flutter, Bootstrap
Databases: MySQL, PostgreSQL, DynamoDB, MongoDB
Cloud Platforms: AWS (EC2, CDK, S3, Lambda), GCP, Azure

DevOps & IaC Tools: Docker, Git, CI/CD, GitHub Actions, RabbitMQ, REST APIs **Tools & Platforms:** Linux, Unix, Windows, macOS, Bash, SAP, Postman