

# Jotham Teshome

West Bloomfield, MI · teshomejotham@gmail.com · linkedin.com/in/jothamteshome · github.com/jothamteshome

## EDUCATION

<b>Michigan State University</b> Master of Science, Computer Science	January 2023 - April 2024 GPA: 3.85
• Relevant Coursework: Natural Language Processing, Computer Vision, Pattern Recognition, Deep Learning, Algorithmic Graph Theory, Distributed Systems	

<b>Michigan State University</b> Bachelor of Science, Computer Science, Minor in Business	September 2019 - December 2022 GPA: 3.69
• Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Algorithm Engineering, Web Application Development, Database Systems	

## WORK EXPERIENCE

<b>Stefanini Group</b> - Software Engineer	April 2025 - Present
• Created a globally distributed <b>Python</b> tool to automate the creation of various <b>SAP</b> documents, cutting creation time by <b>70%</b>	
• Automated document pipeline with <b>FastAPI</b> , <b>RabbitMQ</b> , <b>OpenAI API</b> , and <b>Azure Blob Storage</b> , handling hundreds of requests monthly	
• Integrated an <b>AI chatbot</b> by designing dialog flows and routing requests via <b>REST APIs</b> to trigger <b>SAP</b> document generation pipelines	
• Deployed containerized services in <b>Kubernetes</b> with <b>Helm</b> and <b>ArgoCD</b> , ensuring consistency and cutting deployment effort by <b>40%</b>	
<b>Versive</b> - Machine Learning Engineer	June 2024 - December 2024
• Built <b>CNN</b> models in <b>PyTorch</b> to detect tumors in MRI scans, enhancing diagnostic accuracy by <b>10%</b> and supporting early detection	
• Boosted model performance by <b>10%</b> through <b>YOLOv8 segmentation</b> to focus on critical tumor regions during prediction	
• Applied <b>transfer learning</b> with pretrained <b>ImageNet</b> weights to reduce training time <b>30%</b> and improve precision across scans	
<b>Michigan State University</b> - Graduate Teaching Assistant	August 2023 - May 2024
• Guided students in building responsive front-end projects using <b>HTML</b> , <b>CSS</b> , and <b>JavaScript</b>	
• Improved student project outcomes by <b>7%</b> through office hours and support with <b>Flask</b> back-end design and <b>GitLab</b> version control	
• Reviewed and graded technical assignments for the <b>Web Application Development</b> course, ensuring rigorous academic standards	
<b>Versive</b> - Software Engineer	January 2023 - July 2023
• Developed a secure hospital app with <b>AWS Amplify</b> and <b>RDS</b> , improving MRI access times and reducing verification time by <b>20%</b>	
• Built <b>Flask</b> APIs and connected <b>MySQL</b> backend with <b>React</b> frontend for seamless user experience	
• Ensured patient data security with encryption, <b>RBAC</b> , and <b>MFA</b> , achieving <b>100% compliance</b> with HIPAA standards	
• Leveraged <b>Docker</b> containers and <b>Git</b> for deployment and version control, improving development cycle efficiency by <b>15%</b>	
<b>MSU Federal Credit Union</b> - Software Engineer Intern	September 2022 - December 2022
• Designed a peer-to-peer transfer system in <b>Flutter/Dart</b> with QR code and NFC support, increasing user transaction speed by <b>25%</b>	
• Integrated <b>Google Places API</b> to send personalized deal notifications based on shopping patterns, boosting app engagement by <b>18%</b>	
• Contributed to app improvements using <b>Flutter</b> , <b>Dart</b> , and <b>SQL</b> , enhancing overall app stability and reducing crash rates by <b>12%</b>	

## PROJECTS

<b>Identifying and Removing Toxic Comments</b> , <i>Python, TensorFlow</i>	
• Built an <b>RNN</b> model in <b>TensorFlow</b> to detect toxicity in online comments, collaborating with a peer for model architecture	
• Generated subword embeddings using <b>FastText</b> to better detect potential variations of toxic words in comments	
• Achieved a word-level classification accuracy of <b>91%</b> 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	
<b>Portfolio Website</b> , <i>Node.js, Next.js, React, Bootstrap, JavaScript</i>	
• Designed a responsive portfolio website using <b>React</b> to display my experience and various projects	
• Optimized performance through static site generation using <b>Next.js</b> to ensure a quality user experience	
• Integrated a modern UI using <b>Bootstrap</b> to create a polished, aesthetically pleasing interface	

## SKILLS

<b>Programming:</b>	Python, C/C++, Java, Kotlin, CUDA, JavaScript, TypeScript, HTML, CSS, Dart
<b>AI/ML:</b>	PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, YOLO, OpenCV, FastText, OpenAI API
<b>Web &amp; App Dev:</b>	React, Next.js, Node.js, Flask, FastAPI, Flutter, Bootstrap
<b>Databases:</b>	SQL, MySQL, PostgreSQL, DynamoDB, MongoDB
<b>Cloud Platforms:</b>	AWS, Azure, GCP
<b>DevOps &amp; IaC:</b>	Docker, Kubernetes, Git, GitHub Actions, RabbitMQ, REST
<b>Tools &amp; Platforms:</b>	Linux, Unix, Windows, macOS, Bash, SAP, Postman