

Venkat Yenduri

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EDUCATION

Wayne State University <i>Master of Science in Computer Science</i>	Aug. 2025 – May 2026
Wayne State University <i>Bachelor of Science in Computer Science</i>	Aug. 2021 – May 2025

EXPERIENCE

Data Science Intern <i>United Wholesale Mortgage</i> <ul style="list-style-type: none">Developed a .NET 8 microservice with Microsoft SQL Server to source and expand Octopus deployment data by 200%, enhancing the data lake's layer architecture and adding relational complexity to reduce faulty builds by 20%Designed and implemented a system to transform unstructured deployment data from Harness into a relational database structure, enhancing data organization and accessibility for analytics and reportingBoosted data sourcing efficiency by 67% through improved local storage and batch processingCompleted multiple internal user stories with T-SQL ETL processes, following agile practices	May. 2024 – Aug. 2024 <i>Pontiac, MI</i>
Software Engineer Intern <i>CommunityConnect</i> <ul style="list-style-type: none">Utilized React Context API to manage global state across multiple components, reducing unnecessary re-renders by 18% and increasing user engagement by streamlining interactions, resulting in a 12% uptick in session durationsEnhanced Core Web Vitals (loading, interactivity, and visual stability), using Google Cloud's Managed Services (GCM) for efficient performance management, leading to a 85% decrease in server downtimeDeveloped a serverless architecture on AWS, integrating API Gateway, CloudFormation, and CloudWatch to streamline backend processes and enhance performance, achieving an 11% reduction in loading times	Jan. 2024 – April 2024 <i>Pontiac, MI</i>
Data Engineer Intern <i>TheGlobalTech Experience</i> <ul style="list-style-type: none">Conducted data analysis with a global team using SQL to extract and manipulate dataLeveraged data analysis and Tableau visualizations to derive and communicate insights on user behavior and global business strategy across diverse industries	Sep. 2023 – Dec 2023 <i>Detroit, MI</i>

PROJECTS

Assistive Vision <i>TensorFlow, CoreML, Swift, iOS, AVFoundation</i> <ul style="list-style-type: none">Developed an iOS application empowering visually impaired users through real-time object detection and natural-sounding audio feedbackTrained a custom object detection model using TensorFlow on a curated COCO dataset of indoor objects, achieving an average accuracy of 99%, and converted it to CoreML for on-device processing to ensure fast, context-aware detectionIntegrated an interactive AI assistant leveraging a generative model to guide users through the app's functionalities and provide real-time navigation assistance via voice commands	Jan. 2025 – Apr. 2025
Spotify RFID Record Player <i>Python, Raspberry Pi, RFID Scanner</i> <ul style="list-style-type: none">Created an RFID-embedded Raspberry Pi that scans RFID stickers and plays the corresponding album on SpotifyWrote a Python program that utilizes the Spotify API for sending and receiving requests from the Raspberry Pi, with a built-in 24/7 token refreshing functionIntegrated an RFID scanner with the Raspberry Pi via securely soldered pin connections	Mar. 2022 – April 2022

TECHNICAL SKILLS

Languages: Python, C, C#, C++, Swift, Java, SQL, HTML/CSS, TypeScript, JavaScript
Frameworks: TensorFlow, CoreML, Node.js, .NET, React, NEXT.js, PyTorch, MERN, CI/CD
Developer Tools: AWS, Google Cloud, Git, Docker, Kubernetes, MATLAB, ServiceNow, SSMS, Github, MongoDB, Visual Studio, Tableau, VMWare, Pi
Libraries: OpenCV, pandas, scikit-learn, NumPy, Matplotlib, Pillow