

SREEYUTH CHOWDARY GUNNAM

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EDUCATION

B.S. Computer Science

Dec 2026 (Expected)

Northwest Missouri State University, Maryville, MO

GPA 3.6/4.0

- **Relevant Coursework:** Data Structures & Algorithms, Database Management, Computer Networks, Operating Systems

WORK EXPERIENCE

Software Developer

Sep 2024 - Present

Learning and Teaching Center, Maryville, MO

- Built **NWMSU Agent Core**, an AI powered campus assistant using **FastAPI, React, TypeScript, Docker, Redis, PostgreSQL, OpenAI, Gemini, Microsoft Graph, and Canvas API** to centralize student facing academic and university support workflows.
- Designed a **multi LLM, tool augmented architecture** with MCP based microservices for Canvas, Microsoft Graph, document processing, and university web search.
- Engineered an **async orchestration layer** for tool routing, authentication, conversation state management, and real time streaming responses across web and Microsoft Teams.
- Built secure **OAuth based integrations** and session managed access controls for Canvas and Microsoft services to support protected university data workflows.
- Extended the platform across **web and Microsoft Teams**, enabling students and staff to access the assistant through multiple campus channels.
- Managed deployment in a **Docker based multi service environment** using **Prometheus, Grafana, and Loki** for observability, monitoring, logging, and debugging.
- Developed an **Adjunct Faculty Management System** supporting role based administrative workflows for university leadership and academic coordinators.
- Maintained and extended other **university administrative applications**, contributing features, bug fixes, and reliability improvements for internal users.
- Implemented **CI CD pipelines** to automate build and deployment processes for university administrative applications.

PROJECTS

Podcast Brain [🔗](#)

- Built an AI podcast platform for transcription and retrieval augmented question answering using **Next.js, TypeScript, Supabase, OpenAI, and pgvector**.
- Implemented transcript chunking, embeddings, and semantic retrieval with 120 ms average top 5 retrieval latency.

Gesture Code [🔗](#)

- Developed and published a VS Code extension on Open VSX for hands free editor control using **TypeScript, Node.js, and MediaPipe**.
- Implemented gesture recognition and command execution through a browser based workflow.

Pose Fitness Coach [🔗](#)

- Built a real time exercise tracking app using **Python, MediaPipe, and OpenCV** to monitor form and count repetitions.
- Designed a modular tracking framework and validated repetition logic with pytest.

SKILLS

Languages: Python, TypeScript, Java, JavaScript, SQL

Frameworks / Libraries: FastAPI, React, Next.js, Node.js, Vue.js

Databases: PostgreSQL, MySQL, Supabase, Firebase, MongoDB, pgvector

AI and Computer Vision: OpenAI, Gemini, Claude, AssemblyAI, MediaPipe, OpenCV, RAG

Tools: Git, GitLab, Docker, Jenkins, Jira, Vercel, VS Code, Postman, pytest, Prometheus, Grafana, Loki, IIS

Core: Data Structures & Algorithms, OOP, OOD, RESTful APIs, Authentication (OAuth, RBAC), Unit Testing, Debugging, Async programming, Microservices

CONFERENCES / ORGANIZATIONS

CCSC Central Plains 2025 Conference

Apr 2025

Drake University, Des Moines, IA

- Presented research poster: Enhancing Adjunct Faculty Performance Prediction by Applying SMOTE Techniques.

Association of Computing Machinery (ACM)

- Member at NWMSU