

Andrew Nguyen

andrew@a04.dev | github.com/AndrewN04 | linkedin.com/in/adn2004/

WORK EXPERIENCE

AVID

Aug. 2022 – May 2023

Tutor

Plano, Texas

- AVID is an educational organization focused on preparing students for college readiness and success.
- Assisted William High School students with inquiries and assignments, focusing on math and science.
- Led multiple students simultaneously to improve academic performance by implementing tailored learning strategies and tracking progress.

EDUCATION

University of Texas at Dallas

Bachelor of Science in Computer Science

Richardson, Texas

PROJECTS

Portfolio Website | HTML, CSS, JavaScript

July 2024

- General static web page using HTML, CSS, and JavaScript to showcase projects and skills
 - Built with semantic HTML5, custom CSS for responsive layouts, and JavaScript for interactivity.
 - Deployed on GitHub Pages, enabling a fast, reliable, and cost-free public portfolio.

Simple AI Service Chatbot | Python, LangChain, MongoDB

Feb. 2025

- Created a Streamlit-based AI chatbot that simulates a customer service agent using LangChain with GPT-4, enabling menu queries, order management, and contextual conversation
 - Built a natural language interface for menu browsing, order placing, and cart editing using LangChain + GPT-4.
 - Implemented persistent order storage in MongoDB, handling user sessions, updates, and checkout.

Weather Dashboard | NextJS, React, TailwindCSS

Aug. 2025

- Built a responsive weather dashboard using Next.js and TypeScript that delivers real-time weather, air quality data, and interactive visualizations.
 - Integrated OpenWeatherMap API and Leaflet maps for real-time weather and forecasts
 - Optimized performance and user experience with lazy loading, responsive design, and Redux Toolkit state management.

TMDB Movie Database Web App | Next JS, Postgres, Prisma

Oct. 2025 – Developing

- Building a movie watchlist web app with Next.js 15, TypeScript, and Tailwind CSS, using TMDB API for movie data and Prisma + PostgreSQL for secure, persistent watchlists with Supabase Auth.
 - TMDB API integration for server-side movie search, details, and watchlist management.
 - User authentication and watchlist storage via Supabase Auth and Prisma ORM.

Human Pose Detection | Python, OpenCV, MediaPipe

Nov. 2025

- Developed a real-time human pose and gesture recognition system using Python, OpenCV, MediaPipe, and DeepFace, capable of detecting skeletal landmarks, counting fingers, and identifying facial emotions.
 - Real-time pose tracking with MediaPipe Pose and skeletal visualization.
 - Finger counting using MediaPipe Hands for gesture recognition.
 - Emotion detection via DeepFace with GPU acceleration for fast, real-time analysis.

CERTIFICATIONS, SKILLS & TECHNOLOGIES

- **Skills:** Communication Skills; Project Management; Software Development; Agile Methodologies
- **Technologies:** HTML; CSS; JavaScript; C++; Python; Node.js; React; NextJS; Linux; GitHub; Git; Docker; PostgreSQL, MongoDB/NoSQL