

Akhilesh Kanmanthreddy

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science and Financial Mathematics

Ann Arbor, MI

Expected Graduation May 2028

Saginaw Arts and Sciences Academy

High School Diploma

Saginaw, MI

Aug. 2021 – May 2025

EXPERIENCE

Assistant Project Manager

Michigan Engineering Consulting Group (MECG)

September 2025 – Present

University of Michigan — Ann Arbor, MI

- **Koops Automation – Technology Strategy & Data Engineering** Jan 2026 – Present
- Designing and implementing a web-scraping system to monitor public permit portals and detect filed permits
- Building modular data pipelines to extract, clean, normalize, and store structured permit data
- Developing automated alert mechanisms to enable early sales identification and client outreach
- **Red Hawk Golf Club – Financial & Marketing Strategy** Sep 2025 – Dec 2025
- Analyzed revenue streams and cost structure to evaluate pricing and membership profitability
- Conducted competitive market research to identify customer acquisition opportunities
- Delivered strategic recommendations to client leadership

FRC Robotics Software Lead

Saginaw Arts and Sciences Academy

August 2022 – March 2025

Saginaw, MI

- Lead programming of a robot capable of placing objects from the ground on top of platforms and poles
- Assisted in software development of a robot capable of picking and shooting balls from the ground into a hoop
- Mentored incoming students on java programming basics and software development

AI Engineering Intern

AI Camp

July 2023 – August 2023

Online

- Bootstrapped supertemp.ai, an AI web application for superconductor discovery
- Selected to become AI Sandbox mentor and teach students about AI and machine learning
- Explored ways to visualize GitHub collaboration in a classroom setting

PROJECTS/RESEARCH

AreoSafe | Arduino, C++, MATLAB

August 2024 – March 2025

- Developed the first fully automated pilot's headset for hypoxia prevention
- Automated Arduino sensors to detect low oxygen levels and respond with quick and reliable oxygen delivery
- Raised \$50,000 through startup competitions

3D Modeling of Tumor Evolution | Python, TensorFlow, sklearn, Pandas

August 2023 – May 2024

- Programmed an ML software to forecast 3D tumor model growth faster than current methods
- Coded a program to compile 3D tumor models from 2D MRI segmentations
- Integrated time series forecasting models to predict 3D tumor growth and anatomical invasion sites
- Presented research and won 1st place (\$500) and International Science and Engineering Fair finalist

Auesome Reality | Unity, Python, ElevenLabs, OpenAI

August 2022 – March 2023

- Developed the first fully interactive and automated VR game for children with ASD
- Designed 3D Unity world and developed a fully responsive communication skills course using TTS
- Pitched startup to investors and raised \$20,000+

TECHNICAL SKILLS

Languages: Python, C++, HTML/CSS, Java

Frameworks: WordPress, Django

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Jupyter, Google Colab, Unity

Libraries: pandas, NumPy, Matplotlib, Tensorflow, sklearn, Matplotlib, PyGame, Open AI, Eleven Labs, Difflib, Wipilib