

# Akhilesh Kanmantreddy

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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