ANKUR DESAI

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EDUCATION

Michigan State University   Expected, May 2028
B.S. in Computer Science & Engineering   *East Lansing, MI*
- GPA: 3.74
- Relevant Coursework: Linear Algebra, Discrete Mathematics, Calculus 3, Introduction to Programming II

EXPERIENCE

WFS Consulting Group   May 2025 – August 2025
Web Developer | React.js, HTML, CSS, Figma   *Plymouth, MI*
- Designed a comprehensive mockup using Figma, ensuring alignment with client branding and user experience goals
- Deployed the website using GoDaddy Linux Hosting Services, improving user accessibility across all sizes of devices
- Significantly increased visibility and engagement post-launch

Target   June 2024 – August 2024
Customer Service Advocate   *Northville, MI*
- Assisted 50+ customers daily with complex inquiries, reinforcing a core principle of Customer Obsession
- Developed communication and conflict resolution skills under fast-paced conditions with clients and peers

PROJECTS

WizViz (SpartaHack X)   February 2025
Hackathon Project | Python, PyGame, OpenCV, MediaPipe   *Devpost Link*
- Created an augmented reality game using computer vision and pygame to overlay controls and user information
- Designed a real-time pose estimation system using MediaPipe to track player body movements using a camera
- Implemented gesture recognition using OpenCV to allow players to control the game using hand & arm movements
- Won the Interactive Media: Best Game track, competing against 350+ participants and 100+ projects

Mira Personal Assistant   May 2025 – Present
Full-Stack Development | Python, FastAPI, SQL, Electron, JavaScript   *GitHub Link*
- Developed a RESTful API backend with FastAPI for real-time audio buffer processing and scalable persistence using SQLAlchemy and PostgreSQL, enabling concurrent per-client updates and achieving low latency response times
- Tuned and integrated LLaMA-2-7B-Chat and Falcon-40B-Instruct models for command processing and data extraction
- Implemented speaker recognition using DBScan clustering, audio embeddings, and real-time audio denoising
- Developed dynamic client selection by leveraging Voice Activity Detection (VAD) and RSSI-based location tracking

LEADERSHIP & ACTIVITIES

Software & Electrical/Pneumatics Captain   2022 - 2024
FIRST Robotics Competition (FRC) | Team 548   *Northville, MI*
- Led 7 programmers and 6 electrical/pneumatics specialists in developing robots for the FIRST Robotics Competition.
- Mentored junior programmers in coding best practices, WPILib framework, PathPlanning, PID Control, and Telemetry
- Mentored junior electrical/pneumatics specialists in electrical/pneumatics system design, crimping, and wiring.
- Implemented vision-based autonomous routines using Limelights, AprilTags IMU Sensors, and inverse kinematics.

TECHNICAL SKILLS

Languages . . . . Java, Python, JavaScript, HTML/CSS
Frameworks . . . . React.js, Vite, Node.js, FastAPI, SQLAlchemy
Tools . . . . SQLAlchemy, PostgreSQL, Git/GitHub, Bash