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

EXPERIENCE

Project Team Lead   September 2024 - Present
ThinkStack   *East Lansing, MI*
- Directed a cross-functional team of 4 software engineers and 2 designers to architect and deliver a Next.js webapp, and an Electron cross-platform desktop application for note-taking, concept visualization, and creative exploration
- Orchestrated Agile sprints, managed project timelines, and facilitated seamless collaboration between frontend, back-end, and UI/UX design teams
- Drove requirements engineering by interfacing with clients by translating business needs into technical specifications

Web Development Intern   May 2025 - August 2025
WFS Consulting Group   *Plymouth, MI*
- Designed a comprehensive mockup using Figma, ensuring alignment with client branding and user experience goals
- Utilized CSS Media Queries to ensure the website is fully responsive across various devices and screen sizes
- Deployed the website through GoDaddy Linux Hosting Services

PROJECTS

Mira - AI Personal Assistant   May 2025 – Present
Full-Stack Development | Python, FastAPI, SQL, Electron, JavaScript   *GitHub Link*
- Developed a REST API with FastAPI for real-time audio buffer processing using SQLAlchemy and Amazon RDS
- Integrated the Gemini API to facilitate natural language processing, contextual awareness, and information extraction
- Implemented speaker recognition using DBScan clustering, and developed a dynamic client selection solution by leveraging Voice Activity Detection (VAD)

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
- Applied OpenCV and MediaPipe's Pose model to track player movements, enabling gesture-based game controls
- Won Interactive Media: Best Game track, competing against 350+ participants and 100+ projects at SpartaHack X

TECHNICAL SKILLS

Languages . . . . Java, Python, JavaScript, SQL, Bash
Frameworks & Libraries . . . . React, Electron, FastAPI, SQLAlchemy
Databases . . . . MongoDB, Neo4j, PostgreSQL
Tools & Platforms . . . . Docker, Git, GitHub Actions, Cursor, Figma