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, Computer Organization & Architecture (Spring 2026), Object-Oriented Software Design (Spring 2026)

EXPERIENCE

Drone Systems Research   September 2025 - Present
Exedy Drones   *East Lansing, MI*
- Researching flight path simulations and path making algorithms for autonomous agricultural drones using Python
- Designing concept drone and providing proof-of-concept calculations for a uniquely structured industrial drone

Web Development Intern   May 2025 - August 2025
WFS Consulting Group   *Plymouth, MI*
- Crafted a Figma design and implemented responsive and dynamic elements using CSS media queries and JavaScript
- Deployed the website via GoDaddy Linux hosting servers, ensuring live client access and functionality worldwide
- Drove customer engagement by 200% through integrating contact forms, social media links, and interactive elements

PROJECTS

Project Team Lead   September 2025 - Present
ThinkStack   *East Lansing, MI*
- Orchestrated a cross-functional team of 4 software engineers and 2 designers to architect, launch, and iterate upon a Next.js webapp and an Electron desktop application for note-taking, concept visualization, and creative exploration
- Led SCRUM meetings, built CI/CD pipelines, and drove collaboration between frontend, backend, and UI/UX teams
- Developed a REST API using FastAPI, SQLAlchemy, MongoDB, and Neo4j to handle authentication, manage user data, efficiently store and query notes, and visualize relationships between concepts, text blocks, and environments

Mira - AI Personal Assistant   May 2025 - September 2025
Full-Stack Development | Python, FastAPI, SQL, Electron, Node.js   *GitHub Link*
- Developed a REST API using FastAPI, Whisper, noisereduce, DBScan, and Gemini to transcribe audio, assign speaker IDs, extract actionable tasks, and enable conversational interactions and voice commands with Mira
- Designed an Electron desktop client that listens passively for voice commands and maintains interaction history
- Implemented a client-selection algorithm with Voice Activity Detection (VAD) to support multiple devices on each Mira Network, and intelligently switching between connected clients based on proximity, uptime, and noise level
- Deployed the API on AWS Lambda, and utilized Amazon RDS and SQLAlchemy to store user data and interactions

LEADERSHIP & AWARDS

Interactive Media Track Winner   February 2025
SpartaHackX   *Devpost Link*
- Developed an augmented reality game using Computer Vision and PyGame where two players can duel as wizards, casting spells, dodging attacks, and using healing potions, all in real-time via hand gestures and body movements
- Awarded Best Game in Interactive Media track, among 100+ projects and 350+ participants at SpartaHack X

Vice President   September 2025 - Present
Claude Builders Club @ MSU   *East Lansing, MI*
- Planning and executing workshops, projects, and lectures to encourage use of AI tools like Claude Code and Codex
- Secured funding partnerships with Anthropic and fostered active and engaged participation among 150+ students

TECHNICAL SKILLS

Languages . . . . Java, Python, JavaScript, SQL, Bash
Frameworks & Libraries . . . . React, Node.js, Electron, FastAPI, SQLAlchemy, MediaPipe, OpenCV, Gemini API
Databases . . . . MongoDB, Neo4j, PostgreSQL, Amazon RDS
Tools & Platforms . . . . Docker, Git, GitHub Actions, Cursor IDE, Figma, AWS Lambda, GoDaddy Hosting