

Ishfaq Mohsin

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

Orlando, FL

May 2027

- **Coursework:** Data Structures, Object-Oriented Programming, Discrete Math, Linear Algebra

EXPERIENCE

Software Engineer Intern

Center of Distributed Learning at UCF

March 2025 – Present

Orlando, FL

- Contributed to the design and implementation of full-stack features for **UDOIT**, an accessibility application adopted by over **50 institutions worldwide**.
- Revamped the course scanning feature to find inaccessible content, improving performance and increasing speed upwards of **90%**
- Designed and implemented an accessible and efficient file upload and replacement feature leveraging the **Canvas LMS API, PHP, and MySQL**.
- Designed and implemented a form to add or replace language in HTML content, ensuring compliance with IBM language accessibility standards.
- Designed and implemented core UDOIT desktop features with **Electron, React, Node.js, and SQL**, enabling institutions to run **locally and eliminate server costs**.

PROJECTS

Altimate | React, Tailwind, Fast API, Google Gemini, Typescript

- Built and launched a full-stack Chrome extension in just **36 hours** at ShellHacks 2025.
- Developed an automated Web Accessibility system that improves Web Accessibility for individuals with impaired vision
- Developed an accurate HTML Parsing architecture taking HTML from any site and sending it to **FastAPI backend**
- Utilized **Google Gemini's Text Generation** to create a dynamic architecture for analyzing and generating various **Web Accessibility** issues
- Delivered websites with **100% WCAG** accessibility compliance, enhancing ease of use, navigation, and information discovery.

Recallify | React, Tailwind, Fast API, Google Gemini, ChromaDB

- Developed and delivered a full-stack RAG application within **12 hours** during the GemiKnights Hackathon.
- Created an active recall pipeline enabling students to study more effectively using their own notes.
- Utilized **Google Gemini's embedding function** to store documents as vector embeddings in **Chroma DB**, achieving **95%** first-query retrieval accuracy.
- Leveraged **Google Gemini's Text Generation** to create broad, context-aware questions from stored documents
- Implemented voice chat between users and the model to emulate a natural learning environment and enhance recall.

Wrong Answers | React, Tailwind, Typescript, Websocket, Redis

- Developed a web game with a private room system and **real-time** server communication
- Implemented an Object-Oriented design to architect organized game-logic.
- Utilized **Redis** to store live in game states
- Leveraged **Websockets** to ensure instant client-server communications

TECHNICAL SKILLS

Languages: HTML, CSS, Javascript, Python, C, Typescript, Java, SQL, PHP

Libraries/Frameworks: React, Node.js, Express.js, Tailwind, Flask, Django, FastAPI, Websockets, Gemini, Electron, ChromaDB, Langchain, MongoDB, Postgress, MySQL, Drizzle, Redis

Developer Tools: Windows, MacOS, Linux, Git, Docker, Ollama