

# Ishfaq Mohsin

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## EDUCATION

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### University of Central Florida

Orlando, FL

*Bachelor of Science in Computer Science*

*May 2027*

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

## EXPERIENCE

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### Software Engineer Intern

March 2025 – Present

*Center of Distributed Learning at UCF*

*Orlando, FL*

- Contributed to the design and implementation of full-stack features for **UDOIT**, an accessibility application adopted by over **50 institutions worldwide**.
- Optimized the course scanning feature to find inaccessible content, improving performance and increasing speed upwards of **90%**
- Engineered an accessible and efficient file upload and replacement feature leveraging the **Canvas LMS API, PHP, and MySQL**.
- Developed a form to add or replace language in HTML content, ensuring **81%** compliance with **WCAG language accessibility standards**.
- Architected and implemented core UDOIT desktop features with **Electron, React, Node.js, and SQL**, enabling institutions to run locally and eliminating server costs by **93%**.

## PROJECTS

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### Crimson Brawl | *GDScript, Python, Websockets*

- Won **Best Game Hack** at Knight Hacks VIII (out of **188** projects) for developing a brain-controlled character using EEG signals
- Achieved **99.4%** accuracy using decision tree based XGModels to identify EEG signals as commands
- Built a complete, playable game in **Godot** featuring interactive gameplay and win/lose conditions

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

- Built and launched a full-stack Chrome extension in a team of **4** engineers and designers
- Implemented an automated Web Accessibility system that follows compliance for Web Accessibility for individuals with impaired vision by **83%**
- 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 Accesibility** issues
- Delivered websites with **85%** **WCAG** accessibility compliance, enhancing ease of use, navigation, and information discovery.

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

- Developed a full-stack RAG application in a team of **2**.
- 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 by **70%**.

## TECHNICAL SKILLS

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

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

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