Ahmad Altaher Alfayad

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taheralfayad.github.io/portfolio/

EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Science in Computer Science, GPA: 3.5   *August 2021 – April 2025*

EXPERIENCE

Applications Programmer I   August 2022 – Present
University of Central Florida - Center for Distributed Learning   *Orlando, FL*
- Developed a retrieval-augmented generation AI chatbot called Intelligent Course Search, which allows students to ask questions about course material using a chatbot interface natively in the Canvas LMS. Intelligent Course Search is currently active in 33 courses in the university, and is used by approximately 200 users in its beta stage.
- Created a notetaking Slackbot called Scribe that transcribes videos of standup meetings, creates summaries for them, and sends the summaries to Slack. Scribe has summarized 75 standup meetings and has automated the need for a meeting notetaker in the office.
- Integrated OpenAI's Whisper speech-to-text model into the workplace's automated captioning environment, which resulted in an approximately 98% decrease in lecture captioning costs.
- Contributed various features and bug fixes to the award-winning open-source course accessibility scanning tool UDOIT, which is used by institutions such as the University of Central Florida and the University of Michigan.

Community Program Assistant I   April 2021 – August 2022
City of Maitland   *Maitland, FL*
- Created a tennis court reservation platform using HTML/CSS, JavaScript, and Django to reduce wage cost and improve operational efficiency.

Private Tutor/Founder   December 2021 – Present
Knight Tutors Knight   *Orlando, FL*
- Tutored 15 UCF students on a reccuring basis in various subjects in the realm of Computer Science, including Data Structures and Algorithms, Object-Oriented Programming, and programming in Python.
- Developed a scheduling platform through which students could book time with tutors, using Node.js, React, Express, and MongoDB.

PROJECTS

Sustain.io | *MongoDB, React, Express, Node, Python*
- Received 2nd place for the Schonfeld Sustainability Challenge at Shellhacks 2023 for creating an application that compiles information pertaining to the sustainability of S&P500 companies.
- Developed graphical rankings and displays of company sustainability scores using React.js .
- Employed user authentication using Auth0, to allow administrative users to upload company data.

IsItDescriptive? | *Python, Logistic Regression, TF-IDF*
- Created a logistic regression model that can determine whether or not the text for a link is descriptive with about 90% accuracy.

ICS Insights | *Python, React, PostgreSQL, Docker, BERTopic, GPT*
- Developed a tool that categorizes quiz questions into topics using the machine learning model BERTopic, and then calculates the average grades for each topic, allowing teachers a deeper insight into which specific topics students are struggling with.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL, SQLite, PostgreSQL), JavaScript, HTML/CSS, PHP
Technologies: React, Django, Flask, Symfony, Vue.js, Pinecone DB, MongoDB
Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ, Eclipse