Ahmad Altaher Alfayad

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Arts in Computer Science, GPA: 3.49   *Jan. 2021 – April 2025*

EXPERIENCE

Software Developer   August 2022 – Present
University of Central Florida - Center for Distributed Learning   *Orlando, FL*
- Spearheaded bug resolution for the captioning tool Ableplayer-LTI, utilizing Flask, MySQL, and Docker, thereby improving application reliability and user experience for over 13,000 student users.
- Created a user interface for the internal captioning tool Autocaptioner by leveraging Django and Vue.js, improving instructional designer productivity by a factor of 2x.
- Engineered an asynchronous worker process using Symfony PHP to scan courses and identify accessibility issues for UDOIT, a dedicated LMS accessibility scanning tool, resulting in a 33% decrease in application latency.
- Leveraged websockets to create a scanning progress bar for UDOIT using React.js and Symfony PHP, allowing users real-time feedback on the scanning process, which increased user retention by 16%.

Taher Tutors   July 2022 – Present
Private Tutor/Founder   *Orlando, FL*
- Delivered personalized tutoring in key Computer Science topics such as: Computer Logic & Organization, Data Structures & Algorithms, C Programming, and Object-oriented Programming
- Improved the average grade of 10 clients by 15%.

Community Program Assistant I   May 2021 – August 2022
City of Maitland   *Maitland, FL*
- Created the court reservation system RexSite using HTML/CSS, JavaScript, and Django to streamline the court reservation process by allowing users to reserve courts online.

PROJECTS

RexSite Reservation Platform | *Python, Django, HTML/CSS*
- Developed a full-stack web application using Django, enabling users to conveniently reserve tennis courts online, thereby increasing reservations and customer satisfaction at my previous job.
- Designed an intuitive administration page using Django, HTML/CSS, and JavaScript for the tennis reservation platform, streamlining staff's ability to manage reservations and optimize court usage.

SlackOverflow | *HTML/CSS, Python, Django*
- Collaborated with a team to create a comprehensive documentation repository using Django. The repository serves as a solution database, capturing developer challenges and solutions across a variety of projects.
- Leveraged the Slack API to integrate direct developer contributions to the database, allowing issue reporting and solution-sharing directly from Slack.
- Developed an intuitive user interface that aggregates project-specific issues and solutions, significantly improving accessibility to crucial information.

Scribe Notetaker | *Python*
- Implemented a script to create transcripts of stand-up meetings using OpenAI's Whisper.
- Created a corollary program to summarize stand-up meeting transcripts in bullet-point format by utilizing GPT API.
- Developed a script to send the bullet-point summarizations as a message to a Slack channel using Slack API.

Programming Language 0 Compiler | *C*
- Implemented a virtual machine to process the code generated by the compiler.
- Created a lexical analyzer, a recursive-descent parser, and code generator to develop machine code programs from Abstract Syntax Trees.

TECHNICAL SKILLS

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