Jason K. Flores

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Education

George Mason University — Fairfax, VA
Bachelor of Science in Computer Science — August 2019 - December 2024

Relevant Coursework:
Web App Development, Mobile Application Development, Software Engineering, Data Structures, Analysis of Algorithms, Database Concepts, Object Oriented Programming

Projects

Spotify Playlist Downloader

- Implemented Spotify API integration, enabling secure user authentication and playlist data retrieval by using OAuth 2.0, which resulted in seamless access to over 100 playlists for song downloads.
- Developed a user-friendly web interface using HTML, CSS, and JavaScript, improving user interaction and ease of track selection.
- Created a Node.js backend to handle API requests and manage user sessions, ensuring reliable communication with Spotify's services.
- Integrated ngrok for secure external access, enabling remote users to interact with the app by generating public URLs, expanding user accessibility by 100%.
- Enhanced user experience by enabling both single-track and full-playlist downloads, offering flexible options for different user needs.
- Optimized data fetching and download processes, reducing server load and improving the overall performance and responsiveness of the application.

University Assignment Deadline Scheduler

- Automated deadline and exam scheduling by parsing course schedules in PDF format, increasing task organization for students by 50%, with seamless integration into Google Calendar for automated reminders.
- Implemented PDF parsing and regex extraction to accurately retrieve deadlines and exam dates from structured documents, improving data extraction efficiency by simplifying user inputs.
- Integrated Google Calendar API to automatically create calendar events from extracted deadlines, streamlining student task management and reducing the need for manual input.
- Developed a Flask-based web server that handled up to 50 PDF uploads per session, enhancing the app's reliability and scaling it for multiple users without crashes.
- Enhanced user experience by designing a simple, intuitive interface with HTML, CSS, and JavaScript, improving accessibility and navigation for non-technical users.
- Optimized event creation process through efficient handling of Google Calendar API requests, improving the overall speed of updating student schedules.

Google Calendar Scheduling Assistant

- Developed a chatbot using Dialogflow for natural language understanding, allowing users to create events through conversational scheduling requests.
- Automated event scheduling by linking the chatbot with Google Calendar API, reducing manual calendar management time by 50% for users.
- Implemented robust NLP/NLU algorithms using Dialogflow, achieving 80% accuracy in understanding and processing complex scheduling requests, improving overall user experience.
- Built a Flask-based backend to manage API requests and handle event creation securely and efficiently.
- Improved error handling and debugging skills by identifying and resolving issues in the chatbot's interaction flow, enhancing the system's reliability.
- Reduced user input errors by 20% through natural language feedback, improving the chatbot's ability to clarify ambiguous scheduling requests.

Skills

Programming Languages:	JavaScript, Java, Python, C, Kotlin, SQL
Technologies:	HTML5, CSS3, React.js, Node.js, MongoDB, Oracle SQL, Flask, NoSQL, JSON
Other:	Agile Methodology, Git, GitHub, Visual Studio, UI/UX Design, Netlify, ngrok