Muhammad Hassan

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TECHNICAL SKILLS

Languages: Javascript, Typescript, C++, Python, SQL (MySQL), HTML/CSS
Frameworks: Node.js, Express, Tailwind CSS, Bootstrap
Developer Tools: Git/Github, VS Code, PyCharm
Libraries: React, Redux, Next JS, Pandas, NumPy, Matplotlib

PROJECTS

Epsilon | *HTML, CSS, Javascript* 🔗   November 2022 – Present
- Developed the multi-page frontend for Epsilon, a Science Olympiad, utilizing Vanilla JavaScript
- Implemented custom multi-step registration form using wide range of Input field types (textarea, dropdown, multi-select etc) with the flexibility to add and delete members
- Setup form validation for every field and phone number and email validation using Regex (Regular Expression)
- Made a Login System and Portal for participants only using authentication through Cookies
- Added a file upload functionality (for payment verification) for every team's portal to confirm their registration
- Collaborated with other developers through Github

Fullstack Blog Application | *React, Express, MySQL, JSON Web Tokens, Tailwind CSS*
- Developed Frontend with multiple routes for a Blog Application where users can upload there blog and read others'
- Setup Backend with Express with multiple GET and POST API routes to communicate with frontend
- Used MySQL as database to store multiple tables of Users and Blogs linked by Foreign Keys
- Made use of JSON Web Tokens and Cookies to develop Authentication System for the app using Login and Signup form
- Used Axios for API Requests to show Blogs with multiple categories on different routes
- Gave Users ability to delete and edit blogs written by them by Authenticating them

AI Video Maker | *React, Express, MySQL, Open AI API, Tailwind CSS*   (under progress)
- Allowed users to generate a script for their 1 minute video using Open AI's GPT-3.5 text generation model
- Used Open AI API to generate the scripts on backend and send them using custom APIs
- Let users generate video by providing them assets using the AI Generated Script by splitting it into separate sentences and using Stock Photos API to fetch relevant images
- Used open-sourced text-to-speech API to create voice over for the video using the AI Script

EXPERIENCE

Co-Head IT Department   September 2022 - April 2023
Alpha College
- Built online Registration System for a Science Competition with 500+ participants with custom form using Vanilla Javascript, HTML and CSS
- Oversaw Automatic Attendance System for 500+ participants using Barcode to verify them during 3 days of Competition
- Managed entire IT department to make sure other aspects of competition (e.g online points system) were up to the mark

EDUCATION

Alpha College   Aug. 2021 – May 2023
A' Levels

Fortunehouse School System   Aug. 2019 – May 2021
O' Levels