Ahmed Hassan

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WORK EXPERIENCE

Multimedia Technician - Learning Infrastructure Team   **November 2022 – Present**

Employment Social Development Canada   *Gatineau, QC*

- Developed robust web applications for multimedia and e-Learning projects, including Virtual Assistant Tool, System Simulations, and an Image Optimizer Tool.

- Designed and developed a scalable JavaScript-based virtual assistant tool, achieving daily engagement from hundreds of users through an intuitive interface and ongoing feature enhancements.

- Designed and implemented multiple system simulation tools in HTML, CSS, and JavaScript that mirror existing departmental systems, strategically incorporating overlays for an interactive, step-by-step training. Systems utilized by 30+ users, enhancing departmental training efficiency.

- Developed an Image Cropper and Optimizer tool in JavaScript enabling users to modify images. Implemented a feature to preview the modified images within the ADAPT authoring tool, streamlining the design workflow process.

- Developed an interactive dashboard with HTML, CSS and JavaScript using a SharePoint list for real-time project updates to senior management.

- Automated metadata extraction using Python, processing over 200 images and integrating results into SharePoint, resulting in a faster retrieval process for multimedia assets.

- Collaborated cross-functionally with course designers, team leads, and developers to deliver solutions that met client requirements and project timelines.

PROJECTS

Travel Cost Estimator   **October 2024**

- Designed and built a travel cost estimator that calculates estimated travel expenses including flights, hotels, and food based on user-inputted city data.
- Implemented suggestions for nearby cities with cost comparisons utilizing data from external APIs to provide users with accurate estimates
- **Utilized:** React.js, Node.js, Express.js, MongoDB

Task Manager Application   **October 2024**

- Developed a Task Manager application with user authentication and executes and task management features
- Designed a responsive user interface with React, utilized hooks for state management and Axios for API integration
- **Utilized:** React.js, Node.js, Express.js, MongoDB

Personal Website   **October 2024**

- Built a personal website using React components, leveraging Gatsby for static site generation to enhance performance and optimize SEO
- **Utilized:** React.js, Gatsby

EDUCATION

B.Sc. Electrical Engineering   **June 2018**

Carleton University   *Ottawa, Ontario*

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python, Java, HTML, CSS, SQL, PHP
- **Libraries and Frameworks:** React.js, JQuery, Node.js, Express.js, Gatsby
- **Tools:** Git, GitHub, Bash, Visual Studio Code