

KARIM MAHFOUZ

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EDUCATION

Bachelor of Science, Dec 2023

Major: Computer Science

GPA: 3.7/4.0

Ball State University, Muncie IN

Dean's List - 5 semesters

LANGUAGES

Proficient in:

- JavaScript
- React
- TypeScript
- HTML
- CSS/SCSS

Worked with:

- React Native
- Wordpress
- PHP
- Python
- Java

LINKS

Links to some of my work:

College of Communications Quiz:

<https://ccimquiz.apsoprojects.org/>

Diverse Purchasing Website:

<https://purchasing.apsoprojects.org/>

Indiana Political Science Association:

<https://ipsa.apsoprojects.org/>

Unsung Heroes:

<https://heroes.apsoprojects.org/>

EXPERIENCE

Full Stack Web Developer

Jan 2022 – Present

Ball State University Digital Corps, Muncie IN

Full stack software development working in interdisciplinary teams

- Developed responsive, and user-friendly **React** frontends for multiple web applications using **TypeScript/JavaScript**, **HTML/CSS/SCSS**, and React libraries like **React Router**
- Developed **AdonisJS** backends using **TypeScript/JavaScript**, including **RESTful APIs**, full scale databases and integration with frontends
- Regularly utilized **Git** to manage code and contribute to projects, including creating and merging feature branches, resolving merge conflicts and making pull requests for branch protection
- Deployed and managed repositories and lambda functions using **AWS** services such as **CodeCommit** and **Lambda**
- Researched and evaluated new and emerging languages, libraries, and frameworks to identify the best technologies for each project's unique requirements, such as using **React Native** for cross-platform mobile app development, upgrading to **NextJS** for improved performance and learning **ThreeJS** for complex 3D JavaScript projects
- Collaborated in interdisciplinary teams of **designers, developers, UX specialists and project managers** to deliver digital products to clients
- Enhanced teamwork, communication, and problem-solving skills throughout various organization-wide training sessions and weekly meetings

PROJECTS

College of Communications Quiz

May 2022- December 2022

A website for Ball State University to pair incoming students with compatible professors

- Utilized **React** and **React Router** to build a visually appealing multipage website.
- Collaborated with a team of designers and developers to brainstorm ideas, gather feedback, and build the website.
- Implemented **responsive design principles** to ensure optimal user experience on both desktop and mobile devices, improving accessibility and engagement.
- Created visually appealing animations using **CSS**, enhancing the overall aesthetic and user engagement.

Digital Corps HQ Backend

May 2022- Present

Part of an organization wide project to overhaul project intake and overall workflow

- Leveraged **AdonisJS**, **TypeScript** and **Docker** to architect and implement robust controllers and models, resulting in efficient data handling and optimized API endpoints..
- Executed database migrations, ensuring seamless data structure evolution while maintaining data integrity throughout the development lifecycle.
- Utilized **TypeScript** to bring type safety to the project, reducing runtime errors and improving code maintainability through static typing.
- Implemented **Docker** containers to encapsulate the backend application, its dependencies, and configuration, simplifying the setup process for new team members and deployments.