

WHIT MINSON

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS

Javascript | React / Redux | HTML / CSS | Python | Flask | Express | Node.js | Git / Github | SQL / postgresSQL / SQLite

CAREER SUMMARY

Graphic Designer and Artist turned Full-Stack Software Engineer focused on user experience and accessibility.

EXPERIENCE

Full Stack Software Engineering

Apr 2022 - Mar 2023

SWE Cohort Instructional Leader | Module Assistant | Jr. Instructional Assistant

App Academy

- Recognized for outstanding organizational skills, ability to refine work processes, and deep understanding of App Academy's Full Stack SWE concepts and technologies, which resulted in two promotions within a span of just 10 months.
- As the leader of the **Students with Disabilities** Student Resource Group, provided valuable support and guidance to students with disabilities, while organizing regular remote meetups for the full-time, part-time, New York, and San Francisco programs to foster a supportive community and promote inclusivity and accessibility throughout the organization.
- Created and presented engaging and informative lectures on practical CSS tips, intuitive and accessible design principles, object-oriented programming demonstrations, and more for students, helping them build a solid foundation in essential programming concepts and best practices to prepare for successful careers.
- Collaborated with cross-functional teams to troubleshoot issues with frontend-to-backend data flow, identify and resolve React/Redux rendering bugs, and address HTML/CSS layout and styling challenges. Additionally, contributed to ongoing curriculum development by submitting pull requests to suggest changes and improvements.

PROJECTS

MIDNIGHT OIL (JavaScript / React | Python / Flask | SQLAlchemy)

[live](#) | [github](#)

Midnight Oil is a Brainscape/Anki clone for making flashcards and studying them.

- Implemented the VoseAlias.py package to utilize A.J. Walker's Alias Method algorithm, which optimized weighted random selection to grab cards for the study feature at $O(1)$ time complexity, after setting up a probability table once at $O(n)$ time.
- Designed React / Redux slices of global state to handle ORM fetches for simultaneous singular and multiple SQL instances of the deck and cards data, ensuring app dynamically updates more smoothly.
- Developed a seamless user experience for editing and selecting cards by designing a React form with integrated components and CSS. The form was designed to update the database tables dynamically, providing a natural and intuitive experience for the user, without feeling like a separate entity.
- Optimized the user experience for studying by implementing Redux for state management on the frontend. This eliminated the need to fetch the user's decks and cards frequently from the backend, resulting in faster page load times and more efficient data handling.

PETSY (JavaScript / React | Python / Flask | SQLAlchemy)

[live](#) | [github](#)

Petsy, a full-stack clone of Etsy, is an online marketplace where people sell, buy, and collect unique pet items.

- Constructed a JavaScript helper function that compares the visible height vs the scroll height of a review's DOM element to crop overflow text at 3 lines and allow it to be expanded dynamically to keep the page from looking overcrowded.
- Applied Scrum best practices and Agile methodology while collaborating with a team of three engineers to build project MVPs within a week's time, while mitigating Git merge conflicts, through effective use of a Kanban board.
- Implemented a RESTful API incorporating WTForms for efficient and reliable data validation. This API facilitated seamless communication with the frontend React application, enabling a smooth e-commerce experience and efficient data management.

CRYPT SEEKER (JavaScript / React | Express | Sequelize)

[live](#) | [github](#)

Crypt Seeker is a clone of HipCamp for those interested in booking stays at supernatural places.

- Developed a comprehensive create/edit feature for host users to list their places, including options for custom area features, amenities, and essentials with intuitive icons. This allowed for more personalized and detailed listings, resulting in fewer

miscommunications and a smoother experience for regular users when booking and staying at the hosts' places.

- Simplified SQL table schema so both regular users and host users have the same user authentication, reducing server load.
- Integrated external API, Moment.js, to handle conflicting scheduling dates, reducing the amount of time the app needs to calculate whether a user can book a range of dates for a location.

GOOD GAME GUIDES (JavaScript / Pug | Express | Sequelize)

[live](#) | [github](#)

GoodGameGuides is a clone of GoodReads, providing a collection of videogame walkthrough guides that users can review.

- Utilized Github's project and wiki boards, Git feature branching, and clear documentation to collaborate effectively with two other engineers, ensuring accurate delegation of tasks and timely project completion.
- Developed a set of efficient helper functions utilizing Sequelize ORM and adhering to the Single Responsibility Principle to manage all queries related to the 'shelf' functionality. This allowed for consistent behavior between the constant and custom shelves, improving user experience while enabling rapid task completion for all team members.
- Created an engaging and animated 404/Not found page using HTML and CSS featuring a custom vector illustration of a GameBoy Advance that resonates with the target audience and a clear call-to-action to redirect users back to the application.

ADDITIONAL EXPERIENCE

Freelance Graphic Designer

Middle Tennessee State University History Department & Self-Employed

2016 - 2021

- Designed museum panels of local flora, history, a large map of the surrounding area, and more graphics for Old Stone Fort Archeological Park in Manchester, TN, focusing on user experience throughout the museum.
- Streamlined design production and turnaround time, outperforming previous designer, and proactively responded to board members' change requests and suggestions with prompt maintenance and updates.
- Designed Research Panels with Adobe InDesign, Photoshop, and Illustrator, in collaboration with anthropologists Professor Sam Moore and Lydia Harris, for presentation at Yeats Library at IT Sligo, Ireland and James E. Walker Library at Middle Tennessee State University.

Printmaking Class/Studio Technician

Middle Tennessee State University Fine Arts Department

2016 - 2018

- Supervised and assisted in collegiate classes, led projects and workshops to train students and the local community on modern printmaking techniques.
- Collaborated with faculty to institute facility improvements and performed routine maintenance tasks on presses and chemical processes on a daily, weekly and monthly basis.

EDUCATION

Fullstack Web Development - App Academy | 2022

Bachelors of Fine Arts - Middle Tennessee State University | 2018