WHIT MINSON

(615) 480-2732   whitnessprints@gmail.com   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS

Javascript | React / Redux | HTML / CSS | Python | Flask | Express | Node.js | Git | SQL / SQLAlchemy / Sequelize

CAREER SUMMARY

Driven full-stack software engineer and creativity-seeker looking to delve into new environments and technology to develop innovative and helpful software. Greatly improved organization in all endeavors and created lectures on intuitive design and accessibility in software engineering. Eager to support a team with my keen eye for debugging and improving user experience and inclusivity.

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.
- Composed a React form with components and CSS to not appear as a separate form but update the database tables dynamically when cards were selected and edited on a single page to feel more natural to the user.

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 helper function to check 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.
- Collaborated with a group of three engineers using a Kanban board to ensure adherence to *Scrum* best practices, Agile methodology, and build project MVPs within a week's time while preventing Git merge conflicts.

CRYPT SEEKER   (JavaScript / React | Express | Sequelize)   live | github
Crypt Seeker is a clone of HipCamp for those interested in booking stays at supernatural places.
- Constructed an intricate create/edit functionality for places host users have listed, adding options to add custom area features, amenities, and essentials with chosen icons so listings can be more customizable and detailed and lead to less miscommunications when regular users book and eventually stay at the hosts' places.
- Simplified SQL table schema so both regular users and host users have the same user authentication, reducing server load.
- Integrated Moment.js API 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.
- Collaborated with two other engineers utilizing Githubs project and wiki boards to ensure accurate delegation of tasks and to meet quick turnaround times while keeping good records and documentation.
- Created a multitude of helper functions for all queries relating to the shelves functionality to appear as if the constant and custom shelves function the same, although their algorithms differ, which, not only improving user experience, but also made working on individual tasks cohesive and quick for all team members.
- Designed a creative and animated 404/Not found page with a vector illustration of a GameBoy Advance that captivates the target audience's attention and directs them back to using the application.

EXPERIENCE

Full Stack Software Engineering Module Assistant   Apr 2022 - Mar 2023
SWE Cohort Instructional Leader | Module Assistant | Jr. Instructional Assistant

App Academy
- Promoted twice in 10 months for superior skills in organization, refining work processes, and deep understanding of Full

Stack SWE concepts and technologies.
- Managed the **Students with Disabilities** Student Resource Group; supporting students and organizing remote meetups for the full-time, part-time, New York, and San Francisco aA programs.
- Helped debug frontend to backend data flow problems, React/Redux rendering bugs, HTML/CSS puzzlements, submits pull requests for curriculum changes.
- Assisted students during their capstone project at the end of the program, which requires extensive knowledge on all the technologies, languages, and concepts that App Academy teaches; now assists students in their first frontend framework project where Redux connects to their custom API backend.

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.
- Increased turnaround time of designs compared to their previous designer and provided quick maintenance and requests to satisfy board members changes and suggestions.
- 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*