

Ashton Howard

FULL STACK SOFTWARE ENGINEER

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Web Developer and Software Engineer fueled by curiosity and a passion for growth. Views every line of code as a chance to innovate and refine skills. Thrives on tackling complex problems and finds excitement in unraveling tough challenges to craft effective solutions. Eager to explore new technologies and stay ahead in the fast-paced tech world. Ready to collaborate and code toward building a dynamic future.

Experienced in a wide range of skills including:

LANGUAGES: JavaScript, Python, SQL, HTML5, CSS, English
FRAMEWORKS: React, Redux, Flask, Express, Sequelize

DATABASES: SQLite3, SQLAlchemy, PostgreSQL, Cloudinary
TOOLS: Git, Figma, Docker, Postman, Visual Studio Code

OTHER: UI/UX principles, Pair Programming, Test-Driven Development (TDD), Object-Oriented Programming (OOP), RESTful APIs (Representational State Transfer APIs), Communication, Team Collaboration, Problem Solving, Time Management

PROJECT EXPERIENCE

Popcorn-Palette >> ReactJS, Redux, SQLAlchemy, Flask, Docker, CSS

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- Developed an interactive feature enabling users to add movies to their watchlist directly from the homepage. Used `useState` to toggle between a "+" icon and a checkmark, and `useSelector` to track the movie's watchlist status. Ensured real-time UI updates for instant feedback, optimizing performance with smooth interactions and efficient state synchronization.
- Utilized `CSS translate & transform` to animate placeholder values, on mouse hover, for collections with less than 5 movies and `z-index` to keep the order correct, creating a polished and dynamic user experience.
- Built a dynamic dropdown that shows real-time movie search results as users type, fetching data from an external API. Used `useState`, `useRef`, and `useEffect` to manage input, dropdown visibility, and trigger API calls. Users are redirected to the movie's details page upon selection for seamless navigation.
- Designed a feature that retrieves a movie's cast from a third-party API when viewing a specific film. Used `useState` to manage cast display and `useSelector` to access movie data from Redux. Made GET requests to The Movie Database API, enabling smooth navigation through cast members with arrow controls and real-time UI updates.

KANA >> ReactJS, Redux, SQLAlchemy, Flask, Docker, CSS

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- Crafted an interactive avatar feature allowing users to customize avatars with parts like heads, eyes, and backgrounds. Used `useState` for real-time updates and Redux for data management, dynamically fetching parts from a database. Users can save, update, or delete avatars, with a modal interface and random generation option to enhance the experience.
- Conceived a React component that enables users to open a menu for adding tasks, which then triggers modals for task creation. Leveraged `useState` to manage menu visibility and `useRef` to track the menu element, while event listeners added through `useEffect` ensure the menu closes when users click outside, providing a seamless user interaction.
- Implemented universal CSS variables and classes to streamline styling across the site, facilitating easier maintenance and updates.
- Engineered an interactive rewards system where users can purchase and manage items from a randomized table, boosting engagement. Used `useState` for feedback, `useDispatch` to update Redux, and `useModal` for real-time updates and smooth interactions when rewards are bought or deleted.

WORK EXPERIENCE

Norseman Defense Services >> *System Administrator Intern* > Elkridge, MD

August 2020 – August 2021

- Deployed Mobile Device Management software across all work-related devices for new employees, ensuring comprehensive management and seamless accessibility of all devices when needed. This initiative streamlined operations and enhanced device security within the organization.

- Revitalized acquired devices by thoroughly wiping their hard drives, preparing them for reuse by new employees. This process ensured data security and optimized resources, facilitating a smooth onboarding experience.

EDUCATION

APP ACADEMY >> Full Stack Web Development

Completed November 2024