Aaliyah Harper

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Summary

Driven by a passion for blending creativity with technology, I strive for excellence and innovation in every project. My dedication to human rights and digital privacy motivates me to improve product privacy in the tech industry. I tackle challenges with a meticulous approach and strong communication skills, embracing feedback to develop solutions that meet current demands and anticipate future needs. My objective is to make a meaningful impact in the AI field, focusing on ethical practices and user-centered design.

Skills

HTML, CSS, JavaScript, TypeScript, Python, PHP, React, Vue.js, Tailwind CSS, Bootstrap, Node.js, Express, Sequelize, Laravel, Redux, Inertia.js, SQL

Projects

Quillify   Code

- Developed a web application using Laravel and Vue.js, creating a responsive and efficient single-page application experience.
- Utilized PostgreSQL as the database management system to deliver efficient data handling and high-performance querying, ensuring reliability and scalability for the application.
- Designed a responsive user interface using Tailwind CSS and HeadlessUI, delivering a cohesive and adaptable user experience across all devices, optimizing accessibility and usability.
- Established integration with Inertia.js to marry the backend with the frontend and provide a reactive user experience through its state management within a Model-View-Controller architecture.

Statistically Speaking   Code

- Utilized D3.js to enable dynamic, interactive visualizations, allowing users to create and share graphs directly within the platform, catering to the data-centric needs of analysts and scientists.
- Harnessed the power of Pandas for backend data processing, enabling users to easily upload raw data contained within a CSV and get a visualization.
- Leveraged React Router actions and loaders for efficient data fetching and seamless navigation between profiles, posts, and feeds, enhancing interactivity and performance.
- Implemented a visually cohesive user interface using Tailwind CSS, ensuring an accessible and professional design that meets the standards of data enthusiasts while maintaining usability across devices.

Beatbox   Code

- Developed a Flask-based custom API to optimize data querying and management, utilizing SQLAlchemy and Alembic for seamless database interactions, supporting efficient album and playlist creation.
- Leveraged the flexibility of Tailwind CSS to enhance granular control over component styling, delivering an aesthetically pleasing and highly responsive user interface.
- Engineered a robust Redux store to manage global state for "liked" songs, album and playlist data, and the current playing queue, ensuring a smooth and consistent user experience.
- Integrated AWS S3 for scalable media storage, enabling efficient management of user-uploaded assets while ensuring secure and reliable file handling.

Education

App Academy • *Full-Stack Web Development* • May 2024 - October 2024
Worked in a collaborative environment using React, Redux, Express, Flask, and Sequelize to develop reactive web applications, build APIs, and implement scalable solutions.

Arizona State University • *4+1 B.S. Data Science/M.S. Computational Life Sciences* • Grad. Dec 2026
Intensive five-year program integrating data science with advanced computational methods for bioinformatics. Developing expertise in large-scale biological data analysis, algorithm design, and machine learning to address complex problems in healthcare and biological fields. Current GPA of 3.97.