Preston Coldwell

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TECHNICAL SKILLS

TypeScript, JavaScript (ES6+), Node.js, Express.js, Authentication (sessions, cookies), React, React Router, Redux, Svelte/SvelteKit, NoSQL(MongoDB), SQL(PostgreSQL), RESTful API, Webpack, Vite, Bun, testing (Jest, Vitest, Supertest, Cypress), Tailwind, C3js, HTML5, SCSS/CSS, Vercel, AWS (EC2, Lambda, S3, RDS), Git/GitHub, Docker/DockerHub

EXPERIENCE

LogYard (Open Source Product)
2023 - Current

www.logyard.io | Software Developer | Logging Manager and Visualizer

- Employed React in conjunction with React Router to establish a robust and highly modular architecture, incorporating reusable components throughout the product as well as enhancing code maintainability and scalability.
- Implemented Express.js as the back-end infrastructure, facilitating efficient routing, middleware pipelines, and authentication mechanisms, ensuring robust server-side functionality for seamless communication with the front-end and database.
- Integrated Redux and Redux Toolkit to centralize and manage complex application states, facilitating efficient data flow, real-time updates, and improved debugging, resulting in a responsive and highly scalable user interface.
- Dispatched MongoDB with Mongoose to create a horizontally scalable NoSQL database solution, ensuring efficient, scalable data storage, retrieval, and management for robust and reliable data persistence of user's logs and other application information.
- Leveraged C3.js, built on the powerful foundation of D3.js, to create dynamic and interactive data visualizations within the application, enabling users to gain actionable insights by engaging charts and graphs.
- Converted the logging application to Docker containers, utilizing the power of containerization for enhanced scalability, deployment efficiency, and resource isolation, resulting in a more robust and maintainable application infrastructure.
- Employed Supertest, Vitest, and Cypress to implement comprehensive testing suites for backend and frontend components of the application, ensuring robust functionality and reliability through automated unit, integration and E2E testing.
- Incorporated Tailwind CSS to streamline the styling and design of the logging application's user interface, enabling more rapid development, consistent theming, and responsive layouts, resulting in an aesthetically pleasing and user-friendly application.

Research Lab Technician
2022 - 2023

UF Health Shands Hospital | Gainesville, FL

- Conducted extensive data analysis for bone marrow research projects, utilizing statistical techniques and software tools such as GraphPad to process and interpret experimental data, contributing to several major publications and research findings.
- Collaborated with cross-functional teams to identify key data metrics, working closely with various departments to collect, organize, and manage large datasets from bone marrow studies to ensure data integrity and quality.

PROJECTS

PassPro
2023

www.passpro.io | Account Credentials Manager

- Utilized SvelteKit's built-in SSR, automatic code splitting, and efficient DOM updates to deliver a highly performant and SEO-friendly password management application.
- Employed Bun for streamlined SQL database operations, rapid startup times, and seamless support for mixed module systems.

JobJuggler
2023

GitHub Repo Link | Career Search Organizer

- Designed and implemented a robust SQL database structure using PostgreSQL, utilizing foreign keys to establish complex relationships between user data and individual job application entries to ensure data integrity and efficient retrieval.
- Introduced strong typing and interfaces using TypeScript to create a structured and organized codebase, ensuring the application's long-term maintainability and facilitating future iterations.

EDUCATION

University of Florida, Gainesville, FL | Bachelor of Science | President's List | Honors: Cum Laude | GPA: 3.94 / 4

PUBLIC TALKS

Tech Talk | Amazon Web Services (AWS) | Jeeny and Bractlet Tech Talk | Speaker Series (2023)

PUBLICATIONS

LogYard: A New Log Management and Visualization Platform for Developers | 2023

INTERESTS

I find joy in bringing life to wood through creative design and unique craftsmanship. Exploring the world and embracing cultures, languages, and landscapes is a constant source of inspiration as well, beautifully captured through my Canon lens. When I seek exhilaration, I take to the trails and city streets on my electric longboard.