Preston Coldwell

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TECHNICAL SKILLS

Languages/Frameworks: JavaScript, TypeScript, Python, React, Redux, NextJS, Svelte, NodeJS, Express, JSON, HTML, CSS/SCSS, Bootstrap, TailwindCSS

Technologies: NoSQL (MongoDB), SQL (Postgres, MySQL), GraphQL, RESTful APIs, Authentication (OAuth, NextAuth, JWTs, 2FA, bcrypt), Testing (TDD, Jest, Vitest, Supertest, Cypress), Zod, Vite, Bun.io, Webpack, Vercel, AWS (EC2, Lambda, S3, RDS, DynamoDB), Figma, CMS (WordPress), CI/CD (GitHub Actions), Git/GitHub, Docker/DockerHub, Kubernetes

EXPERIENCE

Your Home Sold Guaranteed Realty (YHSGR) | Software Engineer
December 2023 - Current

Real Estate Employee & Performance Analytics Platform

- Leveraged NextJS with React to develop the Admin Analytics Dashboard, enabling brokers to track YoY/MoM/WoW sales, transaction frequency, and transaction types between agents and teams within their specified brokerage region.
- Orchestrated the Analytics Persistence Layer and Authentication Service with PostgreSQL via AWS RDS, effectively working through schema design and connection configuration for the core platform.
- Developed a robust authentication service with NextAuth, implementing OAuth, Two-Factor-Authentication (2FA), and permission credentials to enhance account security and ensure secure access to the YHSGR Analytics Platform.
- Employed Jest and Cypress to create an automated Unit and End-to-End (E2E) testing suite for the entire platform, ensuring comprehensive test coverage of client and server components to effectively limit release bugs and performance limitations.
- Collaborated with product owners to gather functional requirements and design solutions for the Analytics Platform to meet the needs of both brokers and individual agents within the team.

LogYard (Open-Source) | Software Engineer
July 2023 - December 2023

www.logyard.io | Logging Manager and Visualizer

- Utilized React in conjunction with Redux to construct the Log Manager Console, enabling developers to effectively analyze, group, and filter their application's custom, context-bound log instances in real-time.
- Implemented Node.js with Express to create the highly performant Microservice Logging Platform, leveraging its high throughput capabilities to ingest a constant stream of configured logging across our clients' various services.
- Dispatched MongoDB as the solution for the LogYard Record Management Layer, utilizing its flexible schema structure to offer our users a wide array of applicable use cases when implementing our custom Logging Platform into their applications.
- Leveraged C3.js, built on the D3.js visual library, to create reusable, dynamic, and interactive data visualizations within the application regarding a user's logs, enabling consumers to gain actionable insights based on trends in log data.
- Employed Vitest, Supertest, and Cypress to implement comprehensive testing suites for backend and frontend components of the application, providing automated unit, integration, and End-to-End (E2E) testing covering over 80% of the application.

UF Health Shands Hospital | Research Lab Technician
April 2022 - May 2023

Gainesville, FL

- Ideated and developed the Lab Inventory Manager, utilizing JavaScript, HTML, and CSS to efficiently keep track of laboratory supplies, expiration dates, and specimen data within our anemia-based bone marrow laboratory.
- Generated and maintained detailed documentation of experimental procedures, protocols, and results, and conducted data analysis for bone marrow research projects, contributing to several major publications and research findings in the field.

RECENT PROJECTS

PassPro
2023

www.passpro.io | Account Credentials Manager

- Utilized Svelte alongside PostgreSQL, Bun.io, and bcrypt to develop and maintain the secure and intuitive Account Credentials Management Platform, implementing strong encryption algorithms to ensure compliance with industry standards.

JobJuggler
2023

GitHub Repo Link | Career Search Organizer

- Designed and implemented the App Tracking Panel to effectively keep track of our users' individual job application entries and statuses using TypeScript, React, PostgreSQL, Node.js, and Vite - ensuring an intuitive and seamless user experience.

EDUCATION

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

TALKS/PUBLICATIONS

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

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