Jasen N. Tenney

jasen.tenney@gmail.com https://www.linkedin.com/in/jasentenney/ https://github.com/jntenney 832-998-5470

Professional Summary

Experienced Software Engineer with over 10 years in the industry, specializing in full-stack development and cloud technologies. Proven track record of improving system performance, leading successful projects, and continuously learning new skills. Adept at collaborating with cross-functional teams and committed to delivering high quality solutions.

Technical Skills

HTML5, CSS, SCSS, TypeScript, JavaScript, C#, C++, C, React, Next.js, Vue, jQuery, DOM, React Router, React Query, Redux, Redux Toolkit, Jest, React Testing Library, Tailwind CSS, Material UI, Zod, Git, GitHub, Team Foundation Version Control, JWT, Node.js, Express, NPM, SQL (PostgreSQL, MS SQL Server), Drizzle, Prisma, NoSQL (MongoDB), Mongoose, Webpack, Parcel, Vite, Docker, Kubernetes, AWS (S3, EC2, Lambda, Bedrock AI), Azure (VM Scale Sets, Blob Storage, Functions), FreeBSD

Experience

Software Engineer, *Freelance*, Houston, TX, November 2022 – Present

- Refactored a React SPA to separate data fetching logic from the view components by using the Container/Presentational pattern and React Query for asynchronous application state management, which made the codebase more maintainable and testable.
- Engineered a RESTful API to handle application user authentication, authorization and session management using Node.js and Express for the API routes and JSON Web Tokens in HttpOnly cookies to protect against claims tampering ensuring secure access to sensitive user data while maintaining system performance and user trust.
- Implemented application modals using React Portals to have separate mount points within a SPA providing for a context isolation, re-usability, and a seamless application user experience.
- Reduced application load time in a SPA by code splitting the application routes and implementing React lazy to defer component loading, resulting in a 50% decrease in application load time and enhancing user satisfaction by improving responsiveness.
- Integrated TypeScript's static typing system to ensure type consistency within the application codebase, resulting in fewer runtime errors, an enhanced developer experience via IntelliSense types, and allowing for future additions & type safety in the codebase.
- Incorporated Zod within the application, establishing clear data types and validation rules for user inputs; reduced the amount of imperative code enhancing overall codebase maintainability and reliability.
- Devised a comprehensive strategy to incorporate Redux Toolkit, optimizing global state management and utilizing RTK Query; this approach improved application performance, increased codebase testability, and boosted developer efficiency during sprints.
- Built an open source Docker and Kubernetes monitoring product with integrated observability dashboards and AI-powered analysis. The product is developed under OSLabs and is built using Next.js, incorporates containerization, cAdvisor, Node-Exporter, Prometheus, Grafana, and PostgreSQL to holistically be a developer friendly container monitoring solution. See https://oslabs-beta.github.io/MorpheusLanding/ for more information.

Microsoft, *Director, Principal Consultant,* Houston, TX, June 1999 – November 2022

- Persuaded Microsoft customers to refactor internal reporting solutions to be more interactive and impactful by building Power BI reports and OLAP data warehouses, integrating into Microsoft Teams, and leveraging PBI authentication and authorization to enable seamless access to organizational KPIs and ensuring daily tool usage by employees.
- Influenced Microsoft customers to streamline the architecture of internal .NET web applications by migrating to the cloud, integrating Azure services to improve resource allocation and using container technology to make deployments predictable.
- Developed modern Cloud based Web applications using .NET Core, ASP.NET Core, Model View Controller pattern, MVC Razor Views, C# asynchronous pattern, NuGet, HTML, CSS, JavaScript, JSON, jQuery, Entity Framework Core, SQL Server, REST web services, complemented with Azure services.
- Designed and implemented a sophisticated distributed warehousing system with customer, leveraging C# with ASP.NET web applications, C# mobile applications and monolithic C# web services resulting in enhanced operational efficiency for over 20,000 users managing multi-warehouse food distribution.
- Collaborated with customer to design and implement a robust point-of-sale system utilizing C#, web applications, rich clients, monolithic web services, SQL Server and satellite communications which streamlined processes for franchisees and reduced per sale transaction times.
- Lead the design, development, testing and deployment of a comprehensive auditing application for customer by designing a robust data warehouse and reporting web application capable of storing millions of rows of data using SQL Server partitioned tables; optimized query performance, resulting in fast data retrieval times for audit reporting processes.

- Partnered with customer to create a mobile, self-updating wellbore visualization application using C#, .NET WPF, SQLite, and .NET web services providing a digital solution to a data reference for calculations used in drilling, cementing and completing of oil and gas wells.

Southwest Research Institute, *Analyst,* San Antonio, TX, June 1997 – May 1998

- Coded with the Texas Department of Transportation to envision and create a holistic city-wide traffic management system by using Sun Solaris, Makefile, C, GCC, GDB, TCP/IP sockets, Oracle DBMS, HTML, CSS, JavaScript, and Apache web server and collecting and visualizing traffic data in real time from remote sensors including cameras, embedded wire loops, lane control signals and message signs enabling on-site traffic managers and first responders to make targeted, insightful decisions and respond quicker to traffic congestion and incidents resulting in quality of life improvements for citizens of the community.

Education

University of Louisiana at Lafayette, Lafayette, LA, May 1997
Bachelor of Science in Computer Science, Summa Cum Laude
Awarded Shell Technical Scholarship for Undergraduate Students

Technical Certifications

Architecting Microsoft Azure Solutions | Developing Web Services with .NET Framework | Microsoft Certified Database Administrator

Presentations

Tech Talk delivered to 40+ SWEs, *Vite and the Modern Frontend Developer Experience,* sponsored by Remake Labs

Interests & Hobbies

Saltwater and Freshwater Fishing | Kayaking Lake Toledo Bend, TX | Barbecuing using offset and ceramic grills