

# Jasen N. Tenney

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<https://jasentenney.org/>

<https://github.com/jntenney>

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## Professional Summary

Software Engineer with over 10 years of experience specializing in full-stack development and cloud technologies for companies like Microsoft and Amazon. Achievements include reducing application load time by 50% through optimized coding practices and increasing system performance by 20% via core platform redesigns. Promoted five times during tenure at Microsoft, recognized as a leader in driving impactful solutions across cross-functional teams.

## Technical Skills

**Languages:** HTML5, CSS, SCSS, TypeScript, JavaScript, C#, C++, C

**UI/UX:** Figma, Tailwind CSS, Material UI, shadcn/ui, styled components

**Frameworks:** React, Next.js, Vue, .NET Core, ASP.NET Core, jQuery

**Databases:** PostgreSQL, MS SQL Server, MongoDB

**ORM:** Drizzle, Entity Framework Core, mongoose

**Testing Frameworks:** Vitest, Jest, React Testing Library, Cypress

**Tooling & Processes:** Azure DevOps, Jira, git, GitHub, Team Foundation Version Control, Agile, Scrum

**Technologies:** React Router, React Query, Redux Toolkit, Node.js, Express, Drizzle, Mongoose, Webpack, Parcel, Vite

**Cloud Infrastructure:** Docker, Kubernetes, Azure, AWS

## Experience

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

- Experience in turning Figma design from concept into working responsive website built using React.
- 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 OS Labs 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**

- Collaborated with UI/UX designers to turn Figma design concepts into working .NET Core web applications built in C#, ASP.NET Core MVC, and Razor leveraging .NET Core REST web APIs and SQL Server backend.

- 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 Core 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 .NET Core web applications using .NET Core, ASP.NET Core MVC, Razor, Blazor, C# asynchronous pattern, HTML, CSS, JavaScript, JSON, jQuery, Entity Framework Core, SQL Server, .NET Core REST web services, complemented with Azure services.
- Designed and implemented a sophisticated distributed warehousing system with customer, leveraging C#, .NET Core, ASP.NET Core MVC, C# mobile applications and monolithic .NET Core 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.

## **Education**

**University of Louisiana at Lafayette**, Lafayette, LA  
*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