**Jonathan Haywood**

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Full stack web applications developer with two decades of diverse industry experience designing and scaling high-performance web solutions. A hard-working, driven professional with the ability to work independently, communicate effectively and a proven track record of architecting and delivering quality software.

# Skills

* **Frontend:** JavaScript, TypeScript, Next.js, React, Redux, CSS3, SASS, Tailwind, HTML5, Responsive Design
* **Backend:** Node.js, C#, Python, ASP.NET Core, SQL, SQL Server, Postgres, NoSQL, Microservices, REST
* **DevOps & Cloud:** Azure, AWS, Serverless Architecture, Git, Docker, CI/CD

# WOrk Experience

## Concentrix: *Senior Web Applications Developer* Nov 2023 – Present

* Created conversational phone assistant with Node.js, Typescript and AWS services, leveraging generative AI, Twilio telephony, TTS and STT to automate event registrations, eventually managing 40%+ of incoming calls.
* Architected and implemented a React/Python app that used generative AI and custom-built Retrieval Augmented Generation (RAG) to generate email templates containing knowledge base data extracted from PDFs.
* Collaborated with international team to build a React/Python app using generative AI to transform natural language questions into SQL queries for retrieving data from Azure Databricks and rendering dynamic charts, enabling quick insights into large data sets.

## Care Continuity: *Senior Web Applications Developer* Dec 2016 – Nov 2023

* Served as Frontend Lead and spearheaded efforts to create and maintain a reusable React component library using Redux, Tailwind and Storybook; built three role-based React SPAs supporting a 50+ team of admin users navigating patients after hospital admission, reducing patient readmissions by 49%.
* Migrated legacy ASP.NET MVC app processing 6 million patient records to a React SPA with ASP.NET Core on Azure, including JWT authentication, session expiration, permissions, error/analytics reporting and SignalR real-time notifications.
* Created C# bulk report processing engine using .NET Task Parallel Library to efficiently fetch large amounts of data, generate paged PDFs and upload results to Azure blob storage.
* Built custom Redux-based JavaScript forms library managing 150+ form instances.

## Rainstorm Technologies/SteadyRain Inc: *Lead Software Architect* May 2014 – Nov 2016

* Sole developer of a cloud-based ASP.NET Web API service for greenfield app, handling database access, authentication, permissions, caching, logging, IoC/DI, cloud-based message queues and data encryption in collaboration with a remote team.
* Worked with an international team of clients, PMs and designers to build a custom content management system using KnockoutJS and ASP.NET Web API for e-commerce and virtual conferences, supporting 30+ sites and 100,000+ users.

## New Century Software: *Software Engineer* July 2012 – May 2014

* Built company’s first web-based pipeline integrity app using ASP.NET MVC 5 and ExtJS interfacing with GIS REST services and mapping components for real-time interaction with millions of survey data points.
* Worked with an Agile team to create a Bootstrap, KnockoutJS and ASP.NET Web MVC application that enabled users to validate and stage large dumps of Oracle GIS data and merge them with existing production data, an industry first.

## Penton Media: *Web Application Developer* May 2006 – April 2012

* Designed and developed multiple custom DotNetNuke modules in C# and VB.NET to handle authentication, SEO, CRM integration and analytics for hundreds of online publications.
* Contributed to the development of a custom content management system serving millions of online articles and comments, as well as a custom event registration system that processed thousands of attendee registrations and speaker sessions for in-person conferences.

# Education

## COLORADO STATE UNIVERSITY, Fort Collins, CO

*Bachelor of Science in Computer Science, Minor: Mathematics*