

# Henry A. Riley III

[LinkedIn](#)

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Bentonville, AR

## SENIOR FRONT-END SOFTWARE ENGINEER / FRONT-END ARCHITECT

Innovative and results-driven software engineer with over 20 years of experience designing and developing scalable, high-performance front-end solutions. Passionate about modern front-end frameworks and technologies, UI/UX design, and architectural best practices. Adept at leading teams, mentoring developers, and driving technical excellence.

## TECHNICAL SKILLS

**Front-End:** JavaScript, TypeScript, Angular (js-18), RxJS, NGRX, Highcharts, HTML5, CSS3, SASS, Bootstrap, Material UI, Kendo UI, Tailwind, React, React Native, Redux, Next.js, jQuery, KnockoutJS

**Back-End:** C#, ASP.NET Core, Web API, Entity Framework Core, Node.js, JSONata

**DevOps & Tools:** Azure, Azure Pipelines, Docker, Webpack, Gulp, Git, TFS, VS Code, Visual Studio, Figma

**Databases:** MSSQL, PostgreSQL, DB Visualizer, MS SQL Management Studio, Redis

## PROFESSIONAL EXPERIENCE

### Atlas Technology Group (Advantage Solutions) | Bentonville, AR

Lead Software Engineer & Front-End Architect (Nov 2016 – Nov 2023)

- Led the modernization of front-end architecture using Angular (7-13) and RxJS, improving application performance, reducing technical debt, and enhancing developer efficiency with a modular component-based framework; simultaneously acting as architect, lead engineer, and product owner.
- Designed and implemented a reusable front-end framework and component library, using Angular and Angular Material, to accelerate development.
- Developed dynamic data visualization dashboards integrating charts, graphs, and heatmaps, enhancing user insights and facilitating data-driven decision-making for retail analytics. Data visualizations were powered by Highcharts and the datasets were generated by our in-house reporting framework. Multi-layer caching was used to optimize workloads and delivery speeds. The caching was implemented using Redis on the server-side and IndexedDB on the client-side. Reports were run by our in-house ETL framework and utilized our ETL package dependency system to ensure daily data was properly integrated.
- Created a web-based, WYSIWYG dashboard designer for users to customize visualizations and dashboard layouts. Responsive dashboards layout was achieved using custom CSS breakpoints and Gridster JavaScript library.
- Built a containerized development environment using Docker on WSL2 to create a consistent development environment and reduce onboarding time for new hires.
- Developed unit testing framework and test harnesses to reduce boilerplate code needed to effectively test front-end components; and established/documented unit testing standards, conventions, and best practices. Tests were written using Jasmine and the Angular Unit Testing libraries and were run as part of the CI/CD pipeline in Azure.

- Provided technical leadership, mentoring, and architectural guidance across teams.
- Established, documented, and enforced coding conventions and architectural guidelines for all front-end development across the organization; to encourage consistency, readability, and efficiency of the front-end codebase.
- Assisted project management and product owners in development, estimation, and pruning of requirements and backlogs.
- Participated in screening and interviewing processes for hiring new developers for the engineering team.

## **The Learning Institute | Hot Springs, AR**

**Director of Software Development & Lead Software Engineer** (July 2012 – July 2016)

- Developed an online testing platform using ASP.NET Web APIs and Knockout.js, supporting 5M+ tests across 140 districts.
- Created a data-driven CMS for managing educational standards and assessment content. Content editing was implemented using ckEditor JavaScript library.
- Built multi-layered role-based authentication and authorization systems using ASP.NET Identity.
- Designed scalable reporting tools leveraging OData queries and ASP.NET Web APIs backed by LINQ-to-Entities.
- Designed and implemented web-based access control portal; facilitating the provisioning of access to various applications and features.
- Implemented a rule-based assessment system supporting multiple formats, including PDF and online testing. Leveraged Razor templating and CSS3 to dynamically generate PDF versions of assessment test content, enhancing flexibility and automation in test delivery.
- Established source control branching and merging policies, using Microsoft TFS.
- Implemented CI/CD build and deployment pipelines using JetBrains TeamCity.

## **Cities In Touch | Hot Springs, AR**

**CTO & Chief Software Engineer** (July 2000 – Aug 2011)

- Designed interactive touch-screen advertising and digital signage solutions.
- Developed secure, PCI-compliant financial service kiosks integrating POS hardware.
- Created a centralized remote management system for a distributed kiosk network.

## **PROJECTS & ACHIEVEMENTS**

- Spearheaded the front-end modernization of flagship retail analytics platforms.
- Designed a custom dashboard framework facilitating interactive, drill-down reporting.
- Implemented a scalable, rule-based assessment delivery system for educational testing.
- Developed a secure financial transaction system for self-service kiosks.

## **Hobbies & Interests**

Maker Culture | 3D Printing | CAD & Product Design | Electronics & Robotics | CNC & Metal Fabrication

## **REFERENCES**

**Available upon request**