

Andrew Rivera

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Education

Southern Illinois University Edwardsville

Bachelor of Science in Computer Science (2021)

LinkedIn: <https://www.linkedin.com/in/andrew-rivera16>

Relevant Skills:

(*Proficient*): C#, JavaScript, SQL, Angular, .NET, HTML, CSS, Entity Framework, RXJS, NGRX, Git, SysML, BPMN

(*Familiar*): Python, Azure

Work Experience

Full-Stack Software Developer

Red Cedar Technology Group

April 2022 – Present

- o Contributed to refactoring over 100+ **MySQL** functions and procedures to Entity Framework.
- o I assisted in migrating a full on-prem application to the DoDs cloud provider. This required me to rewrite our app's authentication system to work with the cloud providers authentication.
- o Currently focus on rewriting client-side functionality that resides in **Razor** pages to a complete **Angular** front-end leveraging **RXJS** and **NGRX**.
- o Refactored many **NGRX** stores to leverage Angular's new **Signal** framework.
- o Create new back-end **.NET** functionality with **REST** APIs that uses the Clean Architecture approach.

Consulting/Freelance

October 2024 – January 2025

- o Created a small web app for a small business in Edwardsville Il to help solve niche problems in the Health and Wellness space. The app's primary function is to manage patient records and schedule their next visits. The app also persists patient's medications and when they are due for a refill.
- o The app consists of a **Microsoft SQL Server** database with a **.NET** backend and an **Angular** frontend.
- o The **.NET** and Angular apps are bundled together in a App Service that's hosted through **Azure**. The login implements **Microsoft MSAL Auth**.
- o

Software Developer

US Steel

June 2020-April 2022

- o Debugged **COLBOL** and **JCL** program/procedures on an IBM mainframe.
- o Created, maintained, and rewrote **COBOL** and **.NET** applications that interacted with Toad SQL databases used by the Quality Engineers to track specific data.
- o These applications were leveraged at all the plants globally.
- o Wrote scheduled **SQL** procedures to update the database periodically.
- o Handled all the Quality and Standardization procedures and paperwork for all 5 development teams.

Projects

● **Consolidated Architecture Tool Suite (CATS)**

- o An in-house application, features **REST** APIs as the backend in **.NET8**, supported by a **PostgresSQL** database, and utilizes a combination of **Angular** and **Razor** for the frontend. The application also uses **Entity Framework** to help maintain the database. This application is hosted on the DoDs cloud with a custom authorization system designed by the lead developer and me.

- This custom build software solution helps business architects design, plan, and organize many different systems across the Air Force, Army, and US Transportation Command. The app leverages **BPMN** and **SYSML** diagramming to visualize and architect the data.
- I implemented the **BPMN** and **SYSML** diagramming in-house with the **Joint JS** library.
- I also help new developers on board and teach them many **.NET** and **Angular** tips and best practices regarding the backend and frontend frameworks.
- ***Company Portal***
 - After my main project C.A.T.S, I lead a team of 3 junior developers to maintain another home-grown in-house solution that automates many business processes, houses many critical company documents, and contains a full training system with a custom E-sign feature I built.
 - This app consists of a **.NET** backend with a **PostgreSQL** database, and a full Angular frontend. The frontend also includes **NGRX** state management and **Entity Framework**.
 - I am currently implementing an **Azurite** solution to house documents to reduce the size of the **PostgreSQL** database.
 - I also integrated a Quality Management System within the app that allows employees to take various surveys and change requests. The QMS system also helps streamline the CMMI and ISO processes.
- ***MODOC Domicile***
 - MODOC Domicile is a current app that I am working on for the Modoc Nation Indian Tribe.
 - The app provides an alternative to state-sponsored captive insurance. The app full streamlines this process.
 - Again, this app consists of a **.NET** backend with a **PostgreSQL** database, and a full Angular frontend.
 - The app also contains a full secure login with **Microsoft Identity Api**, **Open/Swagger Api** for my endpoints and E-sign functionality built by myself.

Other

- I currently contain Secret Clearance with the US Government and a Security + certification from CompTIA.