

Alison Forster

Full stack developer with six years of experience in both front-end and back-end technologies, focusing on .NET and Angular. Skilled at rebuilding legacy systems into clean, scalable, and maintainable code.

The Cadmus Group

Jan 2025 - July 2025

- Full-stack developer using .NET 8, Angular 18 and SQL for a web-application that manages a complex USDA database.
- Used stored procedures and Entity Framework LINQ expressions to create RESTful API endpoints.
- Redesigned the backend to use .NET 8, introducing n-tier architecture and test driven development.
- Achieved 90% code coverage with NUnit, Moq and Jest.
- Automated logging to reduce 1000s of lines of code.
- Leveraged RxJS operators to ensure an always up-to-date state.
- Collaborated with UX professionals to fulfill user expectations.
- Applied a CI/CD Jenkins pipeline with SonarQube quality gates.

3M Health Information Systems (became Solventum in Apr 2024)

June 2022 – Jan 2025

Engineer Advanced Software Development

- Back-end (.NET) developer for a product that is used by hundreds of hospitals globally to update medical records.
- Ported a legacy project from JavaScript to C#, rebuilding it from the ground up using Service-Oriented Architecture.
- Integrated our product with a FHIRCast API, using event-driven architecture and caching to manage asynchronous data.
- Transformed complex patient data from multiple sources into an easy-to-parse JSON format.
- Ensured flexible integration with cloud-hosted, web-based, and local applications to meet diverse customer needs.
- Interfaced directly with customers to understand their requirements and iteratively develop tailored solutions.
- Relied on AWS for secrets management and CI/CD.

May 2019 – June 2022

Software Development Engineer

- Front-end developer using the Angular framework to design web applications that configured patient data processing tools.
- Delivered seamless integration with a .NET API & SQL database.
- Engineered ETL data processing pipelines to transform PHI while maintaining HIPAA confidentiality standards.

Contact

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Skills

Languages and

Frameworks:

C# (.NET & ASP.NET)
Angular
Entity Framework
JavaScript/TypeScript
HTML
CSS
JSON

Architectures:

Test Driven
Development (TDD)
RESTful architecture
Service-Oriented
Architecture
Event-Driven
Architecture

Development Tools & Practices:

Git & Bitbucket
Agile (incl. Scrum)
Visual Studio & Rider
JIRA

CI/CD Tools:

SonarQube
Jenkins
Github Actions

Education

MS Computer Science
SUNY Albany

BA Mathematics
Hamilton College