

Andrew Cutler

Senior Software Engineer

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SKILLS

- C# – TypeScript/JavaScript – goLang – SQL – HTML/CSS
- React – Angular – EF Core – .NET – Docker – GitLab – Docker – rxjs – Tailwind – spaCy – OpenAPI – Redux – SqlPackage/DACPAC
- Service-Oriented Architecture – Unit Testing – Containerization – Domain-Driven Design – REST – Defensive Coding – CI/CD – Event-Driven Architecture – OAuth 2.0 – API design – OOP

EXPERIENCE

Senior Software Engineer at Fusion Health

December 2023 - Current

Software Engineer at Fusion Health

August 2019 - December 2023

- Develop, architect, test and maintain an array of single page applications using React, Angular and .NET
- Develop, architect, test and maintain requisite microservices and web APIs for use by the Fusion software ecosystem
- Design microservices for scalability, maintainability and extensibility
- Explore and develop technologies and patterns to improve developer experience and code quality, such as code generation, frontend and backing lint rules, code coverage, coding standards and GitLab CI/CD
 - formalized standards for development of well structured and maintainable frontend applications using Angular and React
- Consult with business analysts, product owners, UI/UX engineers and stakeholders in designing software applications to meet client needs
- Mentor, lead and provide guidance to more junior developers in a respectful and mutually fulfilling environment
- Conduct technical assessments for prospective engineering hires

PROFESSIONAL PROJECTS

Fusion CPOE (.NET/React/SQL Server)

- Designed, architected and developed fully functional computerized physician order entry (CPOE) system in compliance with DEA-mandated EPCS requirements
- Rolled out multiple dependent microservices for two-factor authentication and message polling
- Integrated with EHR to provide medication ordering functionality
- Planned and iterated intuitive web-based UI using React, Redux, and Tailwind

- Managed GitLab pipelines in .yaml files that orchestrated internal deployments, linting, testing, and Octopus release packages
- Marshallled domain-specific data into NCPDP-formatted XML for communication through SureScripts network
- Integrated with ID.Me two-factor authentication provider
- Added test coverage with xUnit/testcontainers for .NET and Jest for React
- Improved initial render time by as much as 80%

Fusion Pulse (.NET/Angular/SQL Server)

- Constructed a service-oriented architecture capable of supporting dozens of small services and multiple client-facing applications
- Designed multiple internal NuGet libraries handling API versioning, automated health checks, logging, Swagger documentation, etc.
- Containerized application, service and database images

fusion-api-generator (golang/mustache/OpenAPI Generator)

- Built a custom command line application to automate creation of C#/TypeScript models based on swagger spec
- Customized template files to auto-generate Angular template-driven form validators based on Swagger attributes

Production application support

- Diagnosed, troubleshooted, and resolved issues with legacy applications in internal and client environments
- Tuned performance of legacy software through database indexes, code changes, and database migrations
- Scoped out client requirements and implemented new features on top of legacy code to meet specific requests, add functionality, or improve existing workflows

PERSONAL PROJECTS

Must Go Faster – <https://must-go-faster.onrender.com/>

- Online chess training app for time scrambles, against the computer or other humans

TLDR.ai – <https://github.com/AndrewCutler/tldr.ai>

- Chrome extension leveraging Hugging Face AI for site summarization

EDUCATION

Stony Brook University – *B.A. in Linguistics*

September 2005 - May 2009

College of Staten Island – *3 semesters towards a BS in computer science*

September 2018 - June 2019