

EXPERIENCE

Senior Software Engineer (.NET) · Arcoro (Remote) Jul '21 - Now

Enhancing product at a venture-backed merger of three HR SaaS suites with nearly 400k daily users.

- Scaffolding a greenfield multi-tenant custom reporting module leveraging cloud-native ETL and warehousing to surface cross-application data.
- Utilize: C# / Angular / ASP.NET Core / Azure (Data Factory, Synapse, Functions, Database, Table Storage)

Senior Software Engineer (.NET) · International Paper (Memphis, TN) Jan - Dec '19, May '20 – Jun '21

Supporting Omega v4—a greenfield re-write of an enterprise goods tracking system across manufacturing, warehousing, and delivery for paper mills worldwide.

- Led development of a critical, high-visibility module in our manufacturing domain by building full-stack user stories in Angular 11 and ASP.NET and back-end eventing with RabbitMQ.
- Spearheaded a new security token service on ASP.NET Core with IdentityServer4, OIDC, and OAuth 2.0 granting authentication and authorization capabilities to a portfolio of Angular clients and APIs.
- Pioneered integration with a feature flag provider (Split.io) to support multi-variant deployment scenarios across services, environments, locations, and stakeholders.
- Introduced a fault-aware HTTP client implementation supporting highly available communication with a cluster of legacy VMS servers from an ASP.NET Web API.
- Utilize: C# / Angular Material 11 / NgRx / ASP.NET Core / AutoFac / MediatR / Microservices / DDD / CQRS

Senior Software Engineer (.NET) · Custom Data Processing (Remote) Jan – May '20

Supported the greenfield re-write of the SPIRIT Web application for WIC (women, infants, and children) sold to a variety of state and local agencies under the State Agency Model (SAM).

- Utilized: C# / Angular 8 / TypeScript / .NET Core / Entity Framework Core / BreezeJS / MSSQL / CouchDB / PouchDB

Software Engineer (.NET) · Shelby Systems (Memphis, TN) Aug '17 – Dec '18

Modernized, expanded, and debugged ShelbyNext Financials—an accounting SaaS/On-Premise web application depended upon by thousands of churches and non-profits.

- Tripled performance of 50 improperly implemented Telerik reports by re-writing them to support load-balanced hosting.
- Engineered an elegant, maintainable solution for strongly-typing a serialized store of user preferences. bit.ly/cbTypeKV
- Utilized: C# / ASP.NET Web Forms / Telerik UI / jQuery / T-SQL / Visual Studio / ReSharper / Scrum

Software Engineer (.NET) · Fred's (Memphis, TN) Sep '16 – Aug '17

Supported line of business applications for a chain of 650 discount retail, pharmacy, and specialty pharmacy stores.

- Led development of an enterprise retail web application responsible for millions of dollars in consumable sales.
- Reduced our time-to-ship by implementing automated CI/CD flows for many of our applications in VSTS.
- Built a messaging microservice on ASP.NET Core to provide real-time SMS notifications to stakeholders via Twilio.
- Interviewed and on-boarded numerous members of our rapidly churning team.
- Utilized: C# / ASP.NET MVC / Kendo UI / DevExpress / Entity Framework / Jira / Confluence

Software Engineer (.NET) · ThyssenKrupp Elevator (Memphis, TN)

Oct '14 – Sep '16

Extended a portfolio of testing and integration software applications on lab simulators and test tower elevators.

- Built a QA testing framework to validate runtime data collected from thousands of elevators in Azure SQL.
- Devised a provisioning service for Azure IoT embedded devices.
- Produced a partial elevator controller simulator to interface with a third-party door controller.
- Increased scenario coverage of an integration testing framework to rigorously proof elevator controller response.
- Utilized: C# / .NET Framework / Windows Forms / T-SQL / FogBugz

Computer Science Instructor & Tech. Specialist · Collegiate School of Memphis (TN) May '12 – Oct '14

Faculty member at a private middle/high school targeting high-performing, low-income students.

- Founded a brand-new computer science and robotics department.
- Raised \$10k, developed curriculum, and taught new Lego Mindstorms robotics courses.
- Launched and facilitated a school-wide Hour of Code initiative.
- Developed a 1-to-1 Chromebook program for more than 200 high school students providing training and logistics to both faculty and scholars.

Software Engineer · Infoscitex Corporation (WPAFB, OH) · Secret Clearance

Jan '10 – Nov '11

Air Force contractor specializing in simulation solutions at the research labs of Wright-Patterson A.F.B.

- Expanded a Java UAV flight simulation framework and analysis tool set.
- Created an Enterprise Architect UML functional specification for a neural network AI defensive system.
- Authored the software requirements specification for an autonomous helicopter flight controller.
- Led the development of a distributed database application for resource management.

PROJECTS

Founder · FilterLists.com · github.com/collinbarrett/FilterLists

Sep '15 - Now

Maintaining an open source application which indexes content filters to promote web performance and privacy.

- 35k+ unique monthly visitors | 50+ contributors | 750+ GitHub stars
- Utilize: React / ASP.NET Core / DDD / MediatR / Entity Framework Core / Docker Compose / Azure DevOps

EDUCATION

BScpE Computer Engineering · Cedarville University

May '12

Minors in Computer Science, Mathematics, & Biblical Studies

VOLUNTEERING

Project Manager · GiveCamp Memphis

'18-'21

4-time volunteer at a weekend hackathon for nonprofit technology projects.

- Managed multiple non-profit projects to ensure the right resources were available for successful solutions.
- Built an ASP.NET Core web application for real-time communication over Twilio SMS with immigration clients of a non-profit legal firm.



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