

COLLIN M BARRETT

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Senior Software Engineer · Arcoro

Jul 2021 – Sep 2022, Aug 2024 – Now

Extending product at a venture-backed merger of three HR SaaS suites serving ~500k daily users

- Drove technical design and implementation for the HR spoke of a new cross-product data synchronization platform
- Architected multi-app, multi-tenant data warehouse and ELT in Azure Synapse Analytics
- Led build of greenfield custom analytics SaaS offering by integrating third-party BI with multiple internal systems
- Steered platform development of internal Angular framework to improve engineer efficiency and application consistency

C# · ASP.NET Core · Blazor WASM · Entity Framework Core · T-SQL · Azure (Functions, App Service, Queue/Table Storage)

Staff Software Engineer · Jack Henry

Sep 2022 – Mar 2024

Modernized the eStatement product depended upon by >10 million financial institution customers

- Created the organization's first public Blazor Server application to improve document delivery
- Built API for chunked, parallel document streaming, drastically reducing download latency
- Extended complex ASP.NET Core microservices (strategy pattern, Unity Container, code generation)

C# · ASP.NET Core Web API · Blazor Server · Razor · .NET 6 · Entity Framework Core · T-SQL · GitHub · Kanban

Senior Software Engineer · International Paper

Jan 2019 – Dec 2019, May 2020 – Jun 2021

Rebuilt event-driven enterprise goods tracking microservices for ~30 global paper mills

- Led build of full stack, real-time microservice in manufacturing domain with Angular Material and ASP.NET Web API
- Architected security token service with IdentityServer4 for Angular, ASP.NET Web API, and external clients/resources
- Pioneered feature flag development to support more frequent multi-variant deployment scenarios

C# · TypeScript · NgRx · DDD · CQRS · Entity Framework Core · MediatR · MassTransit · RabbitMQ · SignalR · Autofac · xUnit

Senior Software Engineer · Custom Data Processing

Jan 2020 – May 2020

Supported the greenfield re-write of the SPIRIT system for WIC (women, infants, and children) administration

C# · ASP.NET Core · Angular · TypeScript · RxJS · Entity Framework Core · SQL Server

Software Engineer · Shelby Systems

Aug 2017 – Dec 2018

Improved accounting SaaS suite depended upon by thousands of churches and nonprofits

- Tripled performance of 50+ .NET Telerik report templates by re-writing them with load-balance support
- Engineered maintainable solution for strongly typing serialized store of preferences in C#

Software Engineer · Fred's

Sep 2016 – Aug 2017

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

- Led rewrite of ASP.NET MVC application responsible for pricing millions of dollars in retail consumables
- Reduced deployment cost and variability by creating multiple CI/CD pipelines in Azure DevOps
- Built messaging microservice on ASP.NET Core to provide real-time SMS notifications to stakeholders via Twilio
- Interviewed and on-boarded numerous members of a rapidly churning team

Software Engineer · TK Elevator

Oct 2014 – Sep 2016

Extended portfolio of .NET testing and integration software for embedded elevator controllers

- Architected test framework for runtime data ingested from thousands of elevators in Azure SQL Database
- Increased coverage of .NET integration test suite to assert proper elevator controller scenario response
- Engineered provisioning service for Azure IoT embedded devices
- Produced partial elevator controller simulator to interface with third-party door controller

Computer Science & Robotics Teacher · The Collegiate School of Memphis May 2012 – Oct 2014

Taught robotics and computer science at a private secondary school targeting high-performing, low-income students

- Founded computer science and robotics department
- Fundraised \$10k, developed curriculum, and taught new Lego Mindstorms robotics courses
- Launched and facilitated school-wide Hour of Code initiative
- Created a WordPress site on custom LEMP VPS to optimize marketing with UX, speed, and SEO
- Developed a 1-to-1 Chromebook program for 200+ high school students, providing training and logistics

Software Engineer · Infoscitex, WPAFB Jan 2010 – Nov 2011

Co-op with U.S. Air Force contractor specializing in flight simulators

- Expanded Java UAV flight simulation framework and analysis toolset
- Created Enterprise Architect UML functional specification for neural network AI defensive system
- Authored software requirements specification for autonomous helicopter flight controller
- Led the development of a distributed database application for resource management
- Represented organization at I/ITSEC (Orlando), SDAWG (Las Vegas), and local technology fairs

ADDITIONAL EXPERIENCE

Organizer · GiveCamp Memphis Feb 2018 – Now

Volunteer year-round planning, marketing, managing, and technically supporting annual nonprofit technology hackathon

FilterLists.com · 35k+ unique monthly visitors · 60+ contributors · 1k+ GitHub stars Sep 2015 – Now

Founded open-source content filter directory promoting web performance and privacy · ASP.NET · React · Docker Compose

CERTIFICATIONS

Azure Developer Associate · Microsoft May 2022 – Now

Bachelor of Science in Computer Engineering · Cedarville University May 2012

RECOMMENDATIONS

Collin quickly becomes a key contributor on every project. He is always willing to help, provides quality work, and is go-to person for the team. Collin's excellent documentation skills and ability to learn new technology extremely quick makes him stand out in the organization. It was a pleasure to work with him and I look forward to our paths crossing again.

Jason Bowling, VP of Platform Engineering, Arcoro

I've had the pleasure to work with Collin at Arcoro where he is a tremendous asset to the larger engineering organization.

Collin is thoughtful, kind, and humble - and he knows C# very well. He's a forward-facing technology leader, always engaging with the latest industry buzz (AI, new C# lang versions, new Azure tech) but not injecting them into the solutions for their own sake.

Collin finds that precious balance between building new functionality and refactoring - and ensuring quality code and readability. Furthermore, he takes the time and makes the effort to make every little thing he touches - code or documentation or a meeting - a little better than when he found it. In aggregate this helps the team scale their knowledge and contribute more to customers in less time.

I would jump at the chance to work with Collin again on other projects - especially something that lets his cutting edge knowledge of C#, EF Core, Blazor and .NET shine.

Sunny Kolattukudy, Principal Software Engineer, Arcoro

Collin joined our company as a remote contractor almost a year ago. He very quickly learned the topography of our applications and infrastructure, and also took it upon himself to find and learn our coding standards and organizational structure. He is very proactive in seeking resolution to issues and is not afraid to reach out to team member (and members of other teams) to remove blockers. He was able to understand the coding patterns within our applications and was able to hit the ground running.

Collin is very astute in regards to new technology and is an avid learner. He was able to come in and learn how to create and implement a Blazor front-end with little guidance. In addition to being an excellent engineer, Collin is a super nice person and is able to communicate very effectively with respect. Collin has the ability to come along side other developers and mentor them in their work. He also has the ability to understand, design, document and communicate complex concepts. He is a very productive and valued member of any team.

Paul Bishop, Senior Software Engineer, Jack Henry

Collin is an excellent developer that pays close attention to detail. He is a hard worker that takes pride in the work he does. I wish I had two more just like him.

Richard Anthony, Software Engineering Manager, Shelby Systems

Without reservation, I wholeheartedly recommend Collin Barrett. Collin is an exceptional developer and ardent devotee of best practices and principles. Insightful beyond his years, he is a thoughtful, deliberate composer of code. He's a great collaborator and genuinely wants to come to a consensus about the optimum solution to development issues, in alignment with best practices. He's eager to learn from others and able to mentor younger developers. He welcomes a challenge and doesn't shy away from a difficult task.

Keith Milford, Senior Software Engineer, International Paper & Shelby Systems

Collin is an excellent engineer and was always a pleasure to work with. He's well rounded and is always prepared to take on any problem that may arise. When he started to work for TKE he quickly adapted to the environment and picked up the toolset and processes very quickly. I recommend Collin to anyone seeking a well-mannered and very competent software professional.

Jeff Berryhill, Senior Software Engineer, TK Elevator

Collin joined the GiveCamp Memphis Steering Committee and immediately got to work tackling tasks required, optional, and exceptional. He took on organizational responsibilities both within and beyond his expertise, encouraged input and course corrections when applicable, always learned from any feedback, and consistently delivered high-quality and reliable results. His efforts brought a great many followers and new participants to our program, and his focus on our stakeholders' experience kept everyone happy when they arrived.

Collin brings an energy which is supportive, encouraging, candid, flexible, attentive, timely, diligent, consistent, disciplined, and dependable. I certainly do recommend that anyone having the chance to work with him take it immediately. Immeeeeediately.

Lance Hilliard, Steering Committee Member, GiveCamp Memphis