

Karter Barnes

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SUMMARY

.NET Architect with 13 years of software development experience delivering **secure, scalable** enterprise applications across customer, operations, financial services, commerce, and healthcare environments. Brings deep hands-on command of C#, **ASP.NET Core**, **ASP.NET MVC**, .NET Framework, modern .NET, Entity Framework, LINQ, Web API, REST services, SQL Server, JavaScript, and microservices architecture. Converts business objectives into practical domain-driven designs, reusable frameworks, API integrations, and cloud-ready solutions. Leads architecture governance, coding standards, technical reviews, CI/CD delivery, security controls, and developer mentoring. Brings a calm, collaborative approach to stakeholder decisions and a genuine interest in helping Crescent Ridge Solutions deliver dependable applications that serve customers and business teams well.

EXPERIENCE

.NET Architect

June 2021 - Present

Bluewater Digital Group

Charlotte, NC

Own architecture direction for a multi-tenant service platform spanning six product domains. Guide design decisions, reusable components, API governance, cloud delivery, security, observability, and developer growth across four delivery squads.

- Defined **ASP.NET Core** and **microservices architecture** with bounded contexts, API contracts, and deployment patterns for six product domains.
- Converted capability maps and stakeholder requirements into **domain-driven design** guidance, reusable C# components, and delivery road maps used by four squads.
- Introduced REST governance covering OAuth, JWT, SSO, versioning, error handling, and observability, reducing integration disputes during releases.
- Standardized Azure DevOps pipelines with Git branching, Jenkins quality gates, automated tests, container packaging, and environment approvals for repeatable deployment.
- Led architecture reviews, **code reviews**, technical demonstrations, and mentoring for 11 developers across ASP.NET Core, **Entity Framework**, SQL Server, and secure coding.
- Improved production diagnosis through centralized logging, performance dashboards, and **RabbitMQ** message tracing, giving support teams a consistent view of latency and failed integrations.

Senior .NET Engineer

July 2018 - May 2021

Redwood Harbor Systems

Raleigh, NC

Delivered high-volume customer account capabilities across ASP.NET MVC, Web API, **SQL Server**, messaging, authentication, and front-end workflows. Guided a Scrum team through design, estimation, quality reviews, and release readiness.

- Delivered high-volume **ASP.NET MVC** and **Web API** features for an account servicing platform used by branch and contact-center personnel across 140 locations.
- Reworked Entity Framework and LINQ query paths, **stored procedures**, and SQL Server indexes for transaction-heavy workflows, improving peak-period response consistency.
- Separated tightly coupled modules into independently deployable services and introduced RabbitMQ events for account-status and document-processing integrations.
- Built HTML5, CSS3, **JavaScript**, and jQuery interfaces that exposed validation and workflow status without duplicating server-side rules.
- Implemented OAuth and JWT authentication with role-based authorization, audit events, and **security** review evidence aligned with governance requirements.
- Guided sprint planning, technical estimation, pull-request reviews, and release readiness for a six-person Scrum team while coordinating analyst and QA dependencies.

.NET Developer

June 2016 - June 2018

Oakline Commerce Solutions

Atlanta, GA

Built commerce applications supporting catalog, pricing, inventory, checkout, order, and notification workflows. Partnered with analysts and front-end engineers on maintainable .NET delivery, integration quality, and operational support.

- Developed **ASP.NET MVC** applications and **C#** services supporting catalog, pricing, and order workflows for a regional commerce operation.
- Created RESTful Web API endpoints and integration adapters connecting order services with payment, shipping, and customer-notification systems.
- Refactored shared validation, mapping, and error handling into reusable **.NET components**, shortening implementation cycles for recurring business features.
- Tuned SQL Server stored procedures and **Entity Framework** queries through execution-plan review, resolving bottlenecks in inventory and order-search screens.

- Added automated unit and integration coverage for API contracts and checkout paths, improving release confidence across frequent Agile iterations.
- Partnered with **business analysts** and front-end developers to clarify acceptance criteria, demonstrate workflows, and document support procedures for operations teams.

Software Engineer

July 2014 - May 2016

Pioneer Health Networks

Nashville, TN

Developed regulated healthcare applications for provider-directory and referral operations. Supported secure integrations, data access, user workflows, testing, deployment preparation, and collaboration with analysts, QA specialists, and compliance reviewers.

- Built C# and **ASP.NET MVC** modules for provider-directory and referral workflows, applying layered architecture and **coding standards** in a regulated environment.
- Implemented Web API services and SQL Server procedures for eligibility and referral exchange with partner systems through documented REST integrations.
- Strengthened application security with claims-based authorization, input validation, audit logging, and session controls for sensitive administrative screens.
- Used **Entity Framework**, **LINQ**, and targeted SQL tuning to support search and reporting across several million directory records.
- Created JavaScript, **jQuery**, **HTML5**, and **CSS3** enhancements that made referral status and exception information easier for coordinators to review.
- Contributed design notes, test scenarios, deployment checklists, and peer reviews within a Scrum delivery team serving compliance reviewers.

Junior .NET Developer

June 2013 - June 2014

Northstar Application Services

Richmond, VA

Supported internal service operations through supervised development of ASP.NET MVC and .NET Framework applications. Built practical experience with C#, Entity Framework, SQL Server, REST integration, front-end validation, Git, testing, and Scrum delivery.

- Implemented maintenance features in **ASP.NET MVC** and .NET Framework applications under senior engineering guidance for internal service operations.
- Built C# controllers, views, and **Entity Framework** data-access components for customer case and task-tracking workflows.
- Wrote LINQ queries and SQL Server stored procedures for operational reports, validating results against analyst-supplied business rules.
- Developed REST endpoints and integration utilities while documenting request models, response behavior, and error conditions for consuming teams.
- Added **JavaScript**, jQuery, HTML5, and **CSS3** form validation that reduced avoidable data-entry defects during user acceptance testing.
- Used Git, **code reviews**, unit testing, and **Scrum** ceremonies to deliver maintainable increments in enterprise application development.

PROJECTS

Multi-Tenant Service Platform 📅 2024

Created a domain-oriented ASP.NET Core platform with microservices, REST APIs, RabbitMQ messaging, OAuth, JWT, SSO, Azure delivery, and centralized observability. Architecture supported six business domains.

Enterprise API Governance Program 📅 2023

Established API standards for versioning, contracts, error handling, authentication, documentation, integration reviews, and release controls. Teams gained clearer ownership and smoother partner delivery.

SQL Server Performance Modernization 📅 2021

Reworked Entity Framework queries, LINQ expressions, stored procedures, indexes, and execution plans for transaction-heavy services. Production workflows gained steadier response behavior during peak demand.

LEADERSHIP & AWARDS

- Technology Innovation Award, Bluewater Digital Group, 2024, recognizing practical architecture improvements and reusable platform components.
- Quarterly Architecture Excellence Recognition, Redwood Harbor Systems, 2020, honoring strong technical direction and delivery partnership.
- Mentor, Charlotte .NET Community Study Group, 2023 - Present, helping developers build confidence with C#, ASP.NET Core, and architecture fundamentals.

EDUCATION

Bachelor's Degree in Computer Science

2013

Virginia Commonwealth University GPA: 3.7

Richmond, VA

Coursework: Software Architecture, Database Systems, Web Development, Algorithms, Object-Oriented Programming

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate 📅 2022
- Microsoft Certified: Azure Solutions Architect Expert 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** C#, JavaScript, LINQ
- **Microsoft .NET:** ASP.NET Core, ASP.NET MVC, .NET Framework
- **Data Access:** Entity Framework, ORM, Stored Procedures
- **Web Development:** HTML5, CSS3, jQuery
- **API Engineering:** Web API, REST services, API integrations
- **Database Platforms:** SQL Server, Database design, Index optimization
- **Cloud Platforms:** Microsoft Azure, Azure Cloud Services, AWS
- **DevOps Tools:** Azure DevOps, Git, Jenkins
- **Delivery Practices:** CI/CD pipelines, Deployment automation, Automated testing
- **Architecture Methods:** Microservices architecture, Domain-driven design, Enterprise architecture
- **Messaging Systems:** RabbitMQ, Kafka, Event-driven integration
- **Identity Security:** OAuth, JWT, SSO
- **Quality Reviews:** Code reviews, Technical reviews, Coding standards
- **Observability:** Performance monitoring, Structured logging, Performance dashboards
- **Agile Delivery:** Agile, Scrum, Sprint planning

SKILLS

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|------------------|--------------------|------------------------|----------------------|
| • C# | • Modern .NET | • REST services | • Database Design |
| • ASP.NET Core | • Entity Framework | • Microservices | • Stored Procedures |
| • ASP.NET MVC | • LINQ | • Domain-Driven Design | • Performance Tuning |
| • .NET Framework | • Web API | • SQL Server | |

PROFESSIONAL AFFILIATIONS

- Charlotte .NET Community Study Group, Mentor, 2023 - Present.
- Triangle Agile Practitioners Network, Volunteer Presenter, 2021 - 2023.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST