

● PRINCIPAL SOFTWARE DEVELOPER

# LANDON MERCER

.NET • SQL SERVER • CLOUD-NATIVE ARCHITECTURE • AI-READY SYSTEMS

15+ years building mission-critical .NET and SQL Server platforms, leading engineering teams, and evolving legacy estates into cloud-native, AI-augmented solutions.

LOCATION

Remote / Hybrid – Open to US & EU

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## PROFILE

## SUMMARY

Principal-level engineer and hands-on architect specializing in high-throughput .NET and SQL Server platforms. Expert in designing and refactoring distributed systems, optimizing database performance, and coaching teams toward clean, testable, cloud-ready code. Recently focused on introducing AI capabilities using **Semantic Kernel** and Azure OpenAI to augment existing .NET services with retrieval-augmented generation, semantic search, and intelligent orchestration.

.NET 6/7/8

C#

ASP.NET CORE

SQL SERVER

AZURE

EVENT-DRIVEN

SEMANTIC KERNEL

LEADERSHIP

## CORE ENGINEERING SKILLS

### C# / .NET (Framework, Core, .NET 8)

API DESIGN • ASYNC • DIAGNOSTICS

⇒ 9.5 / 10

Extensive back-end services, microservices, background workers, libraries.

## .NET & SQL SERVER

### ASP.NET Core Web API

REST • MINIMAL APIS • FILTERS

⇒ 9 / 10

High-performance APIs with versioning, middleware pipelines, and observability.

### SQL Server & T-SQL

SCHEMA • INDEXING • TUNING

⇒ 9.6 / 10

Query optimization, execution plans, partitioning, troubleshooting deadlocks.

### EF Core / Dapper

ORM STRATEGY • TRANSACTIONS

⇒ 8.8 / 10

Balanced patterns: raw T-SQL, Dapper, and EF Core where each fits best.

### Architecture & Design

DDD • CQRS • MESSAGING

### Performance & Scalability

PROFILING • CACHING • LOAD

9.2 / 10

Domain modeling, bounded contexts, event-driven and modular monolith designs.

9 / 10

Profiling (dotTrace, PerfView), caching strategies, connection pooling, batching.

## EXPERIENCE

Principal Software Developer  
FinEdge Systems · Remote  
2020 – Present

Lead Software Engineer  
NorthBridge Health  
2014 – 2020

Senior Software Engineer  
BrightPath Logistics  
2010 – 2014

## SELECTED ROLES

### Principal .NET & SQL Architect – Trading & Risk Platform

- Led modernization of a legacy .NET / SQL Server monolith into a modular API layer and event-driven services, cutting deployment lead time by 70%.
- Redesigned critical T-SQL procedures and indexes for trade matching; reduced average latency from 1.2s to under 200ms at peak load.
- Introduced observability stack (structured logging, metrics, tracing) across .NET services and database to support SLOs and on-call rotations.
- Mentored a team of 10+ engineers, establishing coding standards, review practices, and design documentation guidelines.

### Lead .NET Engineer – Care Management Suite

- Owned architecture for patient management and billing subsystems built on ASP.NET, WCF (legacy), and SQL Server.
- Implemented multi-tenancy, row-level security, and encryption at rest/in transit to support HIPAA compliance.
- Designed ETL processes (SSIS + C# loaders) to consolidate data from 10+ hospital systems into a single reporting database.
- Introduced automated regression testing and CI/CD pipelines, significantly reducing production defects per release.

### Senior .NET / SQL Developer – Routing & Tracking

- Developed core routing algorithms and scheduling services in C# with heavy SQL Server integration.
- Optimized geospatial queries (SQL Server) and caching layer, cutting routing run times by more than 60%.
- Collaborated with operations teams to translate complex logistics workflows into robust, testable code.

## AI & SEMANTIC KERNEL

### INTRODUCTORY PRACTITIONER

Semantic Kernel for .NET  
PLUGINS · PLANNERS · CONNECTORS

5 / 10

Hands-on prototypes integrating Semantic Kernel into existing ASP.NET Core services: prompt

## EMERGING SKILLS

Recently focused on introducing AI features safely into established .NET platforms:

- Built a proof-of-concept “developer assistant” plugin over internal APIs using Semantic Kernel planners.
- Experimented with RAG-style document answering via Azure Cognitive Search and embeddings.

templates, function orchestration, and basic vector search scenarios.

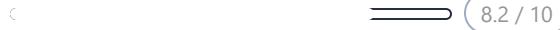
- Defined patterns for prompt versioning, telemetry, and guardrails within existing CI/CD workflows.

Comfortable guiding teams from zero to first working AI-backed feature, with a focus on reliability, observability,

## PLATFORM & LEADERSHIP

### Azure Cloud

APP SERVICE · AKS · SQL DB



8.2 / 10

Deploying and operating .NET APIs, Azure SQL, Key Vault, Storage, Service Bus.

### Testing Strategy

UNIT · INTEGRATION · CONTRACT



8.4 / 10

xUnit, NUnit, test harnesses for .NET + SQL interactions, mocks vs. fakes guidance.

### DevOps & CI/CD

GITHUB ACTIONS · AZURE DEVOPS



8 / 10

Build/test pipelines, release gating, blue-green deployments, DB migration strategies.

### Technical Leadership

MENTORING · ROADMAPS



8.9 / 10

Leading guilds, running design reviews, shaping architecture direction with stakeholders.

## KEY WORK

## SELECTED PROJECTS

### High-Throughput Trading API Platform (.NET & SQL Server)

Principal Developer · FinEdge Systems

Re-architected trade ingestion and risk calculation services into a horizontally-scalable ASP.NET Core and SQL Server solution handling millions of daily transactions.

.NET 7 · SQL SERVER · EVENT-DRIVEN · CACHING

### AI-Assisted Developer Companion (Semantic Kernel POC)

Internal R&D · FinEdge Systems

Created a prototype developer assistant using Semantic Kernel and Azure OpenAI to answer questions about internal APIs, generate sample integration code, and propose test cases.

SEMANTIC KERNEL · AZURE OPENAI · RAG

### Unified Healthcare Reporting Warehouse

Lead Engineer · NorthBridge Health

Designed and implemented an enterprise reporting database and ETL pipeline consolidating 10+ EHR/PM systems, enabling self-service analytics and regulatory reporting.

SQL SERVER · SSIS · DATA MODELING

## EDUCATION & CERTIFICATIONS

## BACKGROUND

### B.Sc. in Computer Science

State University of Technology

Focus on software engineering, algorithms, and database systems.

### Microsoft Certified: Azure Developer Associate

Microsoft

Building, testing, and maintaining cloud applications and services on Azure.

### Internal & Community Learning

Ongoing learning via Microsoft docs, community talks, and prototypes focused on Semantic Kernel, Azure OpenAI, and responsible AI practices in .NET ecosystems.

References and detailed project portfolio available on request.