Terrance Boateng Lead .NET Developer

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PROFILE SUMMARY

- **Lead .NET Developer** with **14 years** in **supply chain and airline software** at **Manhattan Associates and Delta Air Lines**, now leading .NET platform work on the **Manhattan SCALE** warehouse management system.
- Chooses the stack for 2 teams: **C#** on .NET 8 moving to **.NET 10**, ASP.NET Core, EF Core and Dapper on **SQL Server**, RabbitMQ, **Azure** (AKS, Key Vault), Terraform and Azure DevOps.
- Expert in **warehouse execution** (waves, pick tasks, RF handhelds), **strangler fig migrations** off .NET Framework, and **event-driven integration**, checking each release against the **peak season throughput** of the busiest sites.
- Works with **product management**, **customer support**, cloud operations and the consultants who run go-lives, owns the **quarterly technical roadmap**, and joins the escalation call for every Sev-1 at a live warehouse.
- Leads **9 engineers** across 2 teams, chairs the **SCALE architecture review**, wrote the **.NET coding standards** 6 R&D teams follow, and has promoted **3 engineers** to senior since 2022.

TECHNICAL SKILLS

Languages & Runtimes:	C#, .NET 8, .NET 10, .NET Framework 4.8, T-SQL, TypeScript, PowerShell
Web & API Frameworks:	ASP.NET Core, ASP.NET Web API, Minimal APIs, YARP, SignalR, Angular
Data Access & Databases:	Entity Framework Core, Dapper, SQL Server, Azure SQL Database, Redis
Architecture & Messaging:	Microservices, Clean Architecture, Vertical Slice Architecture, CQRS, RabbitMQ, MassTransit, Hangfire
Cloud & DevOps:	Microsoft Azure (AKS, App Service, Key Vault), Azure DevOps, Docker, Terraform
Testing Frameworks:	xUnit, Moq, Testcontainers, Playwright, SonarQube
Security & Observability:	OAuth 2.0, OpenID Connect, Microsoft Entra ID, Application Insights, OpenTelemetry

EDUCATION

Georgia Institute of Technology — **B.S. in Computer Science** — Atlanta, GA · Aug 2008 to May 2012

WORK EXPERIENCE

Manhattan Associates — **Lead Software Engineer, R&D** — Atlanta, GA · Apr 2018 to Present

- Wrote the migration plan that moved 47 SCALE services from .NET Framework 4.8 to **.NET 8** over 6 releases, routing traffic service by service through **YARP**, with **0 customer rollbacks**.
- Set the reference architecture for new SCALE services (**clean architecture**, vertical slices, ADRs) and ran the weekly design review for 6 teams, cutting design approval from 3 weeks to **5 days**.
- Replaced database polling for pick task assignment with **RabbitMQ** and idempotent **MassTransit** consumers, cutting the wait between wave release and the first task on RF handhelds from 40 seconds to **2**.
- Moved cloud-hosted SCALE environments onto Docker images on **AKS** with Terraform and **Azure DevOps** pipelines, cutting the setup of a new customer environment from 3 weeks to **2 days**.
- Brought **Testcontainers** integration suites and **SonarQube** quality gates into every SCALE pull request and coached 9 engineers on writing the tests, cutting customer-found defects per release by **47%**.

Delta Air Lines — **Senior Software Development Engineer** — Atlanta, GA · Jun 2012 to Mar 2018

- Built versioned **ASP.NET Web API** services for crew scheduling data, secured with **OAuth 2.0** tokens, replacing 6 nightly file feeds and giving **11 internal apps** crew changes within a minute.
- Profiled the crew reassignment service with **PerfView** during irregular operations, removed per-flight allocations and cached crew legality rules in **Redis**, cutting a storm-day recalculation from 22 minutes to **4**.
- Redesigned the **SQL Server** schema behind crew pay and pairing history with partitioned tables and filtered indexes, cutting the monthly crew pay close from 2 days to **5 hours**.