

COLIN PECK

Senior C#/.NET Full Stack Developer | ASP.NET Core | React/Vite | SQL | Azure

Buffalo, NY | Remote U.S. roles | contact@colinpeck.dev

GitHub: github.com/cwingflyer | Portfolio: colinpeck.dev

PROFESSIONAL SUMMARY

Senior full-stack C#/.NET developer with 10+ years of combined software, web, graphic, and motion design experience. Builds production-minded .NET 8 applications with ASP.NET Core, EF Core, SQL/PostgreSQL, Azure, Docker, GitHub Actions, React, Vite, TypeScript, TanStack Query, and tested API integrations. Portfolio projects span microservices, event-driven architecture, SignalR real-time systems, Azure Functions/Durable Functions, multi-tenant SaaS security, RAG/AI retrieval, legacy modernization, CI/CD, documentation, and automated testing.

CORE TECHNICAL STACK

Backend	C#, .NET 8, ASP.NET Core, Web API, Minimal APIs, EF Core, Dapper, Identity, JWT/Bearer auth, SignalR, YARP, Hangfire patterns
Data	SQL Server, PostgreSQL, SQLite, Redis, pgvector, EF query filters, migrations, caching, audit trails, row-level/tenant isolation
Frontend	React 19, Vite, TypeScript, React Router, TanStack Query, Axios, Recharts, Tailwind CSS, responsive UI, accessible workflows
Cloud/DevOps	Azure Container Apps, Azure Static Web Apps, Azure Functions, Durable Functions, Bicep, Docker, Docker Compose, GitHub Actions
Quality	xUnit, Vitest, Playwright, Testcontainers, Moq, FluentAssertions, characterization tests, integration tests, eval harnesses
Remote	Strong written communication, async documentation, visible work tracking, stakeholder translation, autonomous delivery, code review readiness

PROFESSIONAL EXPERIENCE

Firstsource Solutions | Executive C# Developer | 2020 - Present

- Create, test, maintain, and support internal and external web and standalone applications for business teams and partner-facing workflows.
- Develop C#/.NET application features, ASP.NET workflows, SQL-backed data interactions, API integrations, and responsive front-end experiences.
- Turn ambiguous department requests into usable tools by clarifying requirements, modeling data, building workflows, testing behavior, and supporting release updates.
- Use Visual Studio, Visual Studio Code, SQL Server Management Studio, Git, Azure DevOps, and modern .NET/React tooling across development and troubleshooting.

Freelance | Developer / Designer | 2017 - 2020

- Designed and developed client-facing websites and digital experiences, combining implementation with strong visual design judgment.
- Managed client communication, requirements gathering, production revisions, and delivery as an independent contributor.

Fisher-Price | Design Animator | 2014 - 2015

- Created motion design and product advertisement video assets for consumer-facing product storytelling.

NRG Energy | Graphic / Motion Designer | 2012 - 2013

- Produced graphic and motion assets for marketing, internal communication, and branded campaigns.

Koroseal | Graphic Designer | 2010 - 2012

- Created production-ready visual design work for brand, layout, and presentation needs.

EDUCATION AND CREATIVE BACKGROUND

Bachelor of Science, Software Engineering - SUNY Fredonia, 2017

Certificate, Visual Effects - Daemen University, 2013

Bachelor of Arts, Media Studies - University at Buffalo, 2010

Creative work includes website design/development for American Express, Applebee's mural work, Fisher-Price product advertisement videos, and visual effects experience for a Pepsi Super Bowl commercial.

INTERESTS

Music: Writing songs and playing guitar/piano; recorded four songs in LA with former Doobie Brothers drummer MB Gordy; working on a full-length album with a Ukrainian singer, writing, mixing, and recording all songs.

Adventure sports: Flown in several ultralight wings, paragliders, and hang gliders across NY, PA, OH, and FL; enjoy flying FPV drones.

SELECTED APPLICATION PORTFOLIO

Eight full-stack portfolio applications, each built to demonstrate a different senior-level engineering concern. All repositories are under github.com/cwingflyer and use modern .NET/React patterns with tests, documentation, and deployment assets.

EventHorizon | [GitHub](#) | [Demo](#)

Event-driven .NET 8 microservices order-processing platform using RabbitMQ, saga orchestration, transactional outbox, idempotent consumers, dead-letter replay, SignalR live operations console, OpenTelemetry, Docker Compose, and xUnit/Testcontainers.

FlowForge | [GitHub](#) | [Demo](#)

Enterprise workflow and approval automation platform using Clean Architecture, ASP.NET Core controllers, EF Core, SQL Server/PostgreSQL support, JWT auth, Hangfire-style background processing, HMAC webhook reliability, audit trails, React/Vite, TanStack Query, Axios, and Vitest/xUnit.

InsightLab | [GitHub](#) | [Demo](#)

BI and scheduled-reporting platform with star-schema analytics, EF Core querying, PostgreSQL, Redis caching, row-level access control, streaming exports, Hangfire jobs, Recharts dashboards, audit trail, Playwright/Vitest, xUnit, and Testcontainers.

Phoenix | [GitHub](#) | [Demo](#)

Legacy modernization project using the Strangler Fig pattern, YARP reverse proxy, legacy/modern slices, anti-corruption layer, feature-flagged cutover, characterization tests, parallel-run validation, ASP.NET Core, EF Core, SQLite, React/Vite, and Docker.

Pulse | [GitHub](#) | [Demo](#)

Real-time collaborative incident command app using ASP.NET Core SignalR, Redis backplane, presence, typing indicators, append-only event log, missed-event replay, optimistic concurrency, hub rate limiting, PostgreSQL, React/Vite, Zustand, and integration tests.

Conduit | [GitHub](#) | [Demo](#)

Azure-native document/media processing pipeline using Azure Functions isolated worker, Durable Functions orchestration, fan-out/fan-in, retry policies, Azurite local-first storage, blob/table/queue patterns, Bicep IaC, EF Core/PostgreSQL, React/Vite, and Azure Static Web Apps CI.

Cortex | [GitHub](#) | [Demo](#)

RAG knowledge assistant using ASP.NET Core, PostgreSQL + pgvector, PDF/Markdown ingestion, chunking, hybrid keyword/vector retrieval, streaming SSE via IAsyncEnumerable, inline citations, groundedness guardrails, retrieval inspector, cost tracking, eval harness, Docker, and xUnit/Testcontainers.

Keystone | [GitHub](#) | [Demo](#)

Multi-tenant B2B SaaS foundation using ASP.NET Core, EF Core global query filters, tenant write-stamping, identity, rotating refresh tokens, tenant-scoped roles, invitations, feature flags, usage metering, audit logs, billing seam, React/Vite, Redis, PostgreSQL, and Testcontainers.