

# EDWARD KISER

Senior Software Engineer · C# / .NET Backend

Jacksonville, FL · [edkiser@gmail.com](mailto:edkiser@gmail.com) · [github.com/Sunlighter](https://github.com/Sunlighter) · [nuget.org/profiles/Sunlighter](https://nuget.org/profiles/Sunlighter)

## SUMMARY

Backend-focused C# / .NET engineer with 20+ years designing services, data pipelines, and systems software. Strongest at service-layer work: APIs, SQL Server, multithreading, parsers, and modernizing legacy code into something testable and reliable. Comfortable owning Windows services and SOAP/REST backends, plus ASP.NET or Angular when a service needs a UI.

## CORE SKILLS

**Languages:** C# (.NET Framework, .NET Core / .NET 10), F#, T-SQL, C++; TypeScript / JavaScript when a UI is required

**Backend & APIs:** ASP.NET MVC, WCF / SOAP, REST services, Windows Services, multithreading, TCP/UDP protocols, Reflection.Emit

**Data:** SQL Server (stored procedures, CLR procedures/functions/aggregates), SSIS, SQLite, PostgreSQL, MySQL, NHibernate, Entity Framework

**Cloud & Tools:** AWS (EC2, S3, RDS, EFS); Azure familiarity; Visual Studio, Git, TFS

**Frontend (supporting):** ASP.NET MVC, Angular / TypeScript, Blazor, Kendo UI

**Specialties:** Legacy modernization, lexical analysis and LR(1) parsing, deterministic logging, performance-minded libraries

## PROFESSIONAL EXPERIENCE

**Open-Source / Independent** · Jacksonville, FL

May 2024 – Present

*Independent Software Engineer*

- Designed and published a family of C# libraries on GitHub and NuGet for compiler construction and systems programming: lexer generator, LR(1) parser generator, composable type traits (comparison, hashing, binary serialization), rope strings for large text buffers, and async producer-consumer queues.
- Shipped packages targeting modern .NET (including .NET 10), using Reflection.Emit for code generation and SQLite for a persistent dictionary built on the type-traits library.
- Built an XML-documentation viewer first in Blazor, then rewrote it against HttpListener for a simpler self-hosted backend.

**HealthAxis** · Tampa, FL (Remote)

Mar 2022 – May 2024

*Software Developer*

- Owned feature work on the claims Adjudication service — a C# WCF/SOAP backend that calculates amounts payable on health-insurance claims.
- Added internal test UIs and claim-number log search so prior service calls could be replayed; cut the time to find and fix production defects.
- Made multithreaded logging deterministic so buggy vs. fixed runs could be compared line-for-line.
- Wrote an impact-analysis tool that reprocessed tens of thousands of claims through both code paths and wrote results to SQLite, identifying which claims a bug had actually changed.

**BAE Systems** · St. Marys, GA

Aug 2019 – Mar 2022

*Senior Analyst*

- Modernized a warehouse-administration system from PowerBuilder to .NET Framework.
- Built a translator that parsed PowerBuilder sources and emitted C#: implemented an LR(1) parser generator and a Scheme-like language with an amb operator, then ran that language over the legacy files to produce parse trees and formatted C#.

**Critical Alert Systems** · Jacksonville, FL

Jul 2018 – Dec 2018

*Senior Software Developer*

- Parallelized Call Answer Terminal startup so the Windows client loaded faster.
- Extended the Angular 5 / TypeScript admin site with a new settings tab; added a “next patient” control on the answer terminal for multi-patient rooms.

**Cogenix (client: ROInnovation)** · Seattle, WA

Mar 2016 – Apr 2018

*Software Developer*

- Moved multimedia off web servers onto Amazon S3 and wrote the C# serving layer, including a ZIP-file endpoint that bundled multiple assets into one download.
- Stopped CSRF on query-driven endpoints by validating parameters; designed a small language and parser so allowed parameter sets could be declared instead of hard-coded.
- Wrote JSON import/export against Microsoft Cloud DAM and handled database copies between test and production.

**Getty Images** · Seattle, WA

Nov 2015 – Feb 2016

*Senior Software Developer*

- Worked on RESTful ASP.NET MVC services for customer data, purchases, and subscriptions; replaced legacy stored-procedure paths with service-layer behavior and NHibernate data access.

**Realty In Motion · Port of Seattle · BECU** · WA

2012 – 2015

*Software Developer / Technical Lead*

- Realty In Motion (2012–2014, 2015): maintained a .NET component library called from Access; fixed Win7/XP deployment so users could leave XP; kept a business-critical foreclosure mailing pipeline running and added tools to detect failed mailings; completed an Excel/SFTP daily feed; built an Outlook-to-SQL error-mail collector.
- Port of Seattle (Technical Lead, 2015): ASP.NET MVC 5 + Kendo admin and self-service sites; EF6 Code First with encrypted SQL Server columns; OWIN cookie auth replacing Forms Auth; Selenium/SpecFlow tests; TCP relay to observe barcode-scanner traffic.
- BECU (2014): SSIS packages and web services integrating core databases with a vendor PFM system; used F# to reverse-engineer a poorly documented fixed-field file, then wrote the C# parser; corrected account-number cryptography before production; light JavaScript to embed the vendor UI in online banking.

**Microsoft** · Redmond, WA

Aug 2011 – Sep 2012

*Software Developer in Test*

- Tested Visual Studio 2012 cross-language platform features (VSOS): Task Library used by Asynchronous Solution Load, fuzz testing of .suo compound files, heap inspection for leaks, hang/assert detection, and a queueing service that decoupled a random-solution generator from the test harness.

**AutoQuotes (now Revalize)** · Jacksonville, FL

May 2007 – Aug 2011

*Software Developer*

- Built C# Windows Forms tools and Windows services for catalog, billing, and conversion workflows, deployed with ClickOnce.
- Wrote a multi-threaded project-conversion service, a parallel URL checker, a UDP lock service to prevent database deadlocks on the internal network, and a Windows service host that let a ClickOnce app install a service.
- Designed application logic for CesaCAD, a product-search site that served catalog images and CAD downloads.

**Omniphone, Inc.** · Mobile, AL

Jan 2004 – Feb 2007

*Software Engineer*

- Designed a C++ Windows Service for real-time recording on up to 24 phone lines, using an asynchronous message-passing engine modeled on Erlang.
- Maintained two 50k+ LOC C++ products through DAO-to-ODBC transitions; built real-time billing-number validation with I/O Completion Ports; shipped SQL Server admin tooling, an ASP.NET call-monitor applet backend, and a Java decoder for Caller ID in recordings.
- Owned builds, release notes, and internal install guides.

## SELECTED PROJECTS

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- Sunlit World Scheme — R4RS-inspired Scheme on .NET; reflection for extensibility and Reflection.Emit for generated code. [github.com/Sunlighter/swscheme](https://github.com/Sunlighter/swscheme)
- AsyncQueues — asynchronous producer-consumer queues for .NET. [github.com/Sunlighter/AsyncQueues](https://github.com/Sunlighter/AsyncQueues)
- Earlier systems work: Forth implementation with a tested x86 assembler; WAV sample-rate converter using SSE; PHP/MySQL appointment system on Linux.

## EDUCATION

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**University of North Florida** · Jacksonville, FL

1993 – 2000

- B.S., Electrical Engineering (GPA 3.26). Graduate coursework in computer science / software engineering (GPA 3.6).
- National Merit Scholar Semifinalist; Academic Leadership Scholarship (four years).