

Eric Ryan **Bowser**

Full Stack Software Engineer / Cloud Architecture Enthusiast

[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Professional Summary

Experienced Full Stack Software Engineer with 10+ years of expertise in C#/.NET development, modern web technologies, and cloud architecture. Specializing in WPF/MVVM desktop applications, high-performance API integrations, and React.js component development. Currently expanding expertise in cloud technologies through AWS and CompTIA certifications while developing innovative applications in AI automation and cloud study tools.

Core Technical Skills

Languages & Frameworks

- **Backend:** C#/.NET Core 8.0, ASP.NET Core Web API, Node.js, Express.js
- **Frontend:** React.js, JavaScript/TypeScript, HTML5/CSS3, Tailwind CSS, Bootstrap
- **Desktop:** WPF/XAML, MVVM Architecture, Windows Forms

Databases & Data

- SQL Server, PostgreSQL, Cosmos DB, MongoDB
- T-SQL (Stored Procedures, User-Defined Functions, Table-Valued Parameters)
- Entity Framework Core, Dapper, Sequelize

Cloud & DevOps

- **In Progress:** CompTIA Cloud+ (CV0-004), AWS Solutions Architect - Associate (SAA-C03)
- Azure DevOps, GitHub Actions, CI/CD Pipelines
- Docker, Kubernetes, Microservices Architecture
- Microsoft Azure (App Service, Functions, Storage, SQL Database)

Tools & Methodologies

- Git/GitHub, TeamCity, Octopus Deploy, Cake Build

- RESTful APIs, SOAP/WCF, OpenAPI/Swagger
 - Agile/Scrum, SOLID Principles, Design Patterns
 - xUnit, NUnit, Jest, React Testing Library
-

Professional Experience

Independent Software Developer & Cloud Architect

Jan 2024 - Present

Focus: Cloud Certification, Full-Stack Development, AI Integration

CloudPrepper - Cloud Certification Study Platform

- Developing comprehensive study application for CompTIA Cloud+ and AWS certifications
- Built React.js frontend with flashcard system, practice exams, and progress tracking
- Implemented spaced repetition algorithm for optimal learning retention
- Created RESTful API with Node.js/Express for user progress and analytics
- Technologies: React, Node.js, PostgreSQL, Tailwind CSS

AI Assistant Tools Suite

- Architected multi-AI platform integrating OpenAI, Google Gemini, and Anthropic Claude APIs
- Built Node.js backend with Express.js for unified AI model access
- Developed React frontend with real-time streaming responses
- Implemented prompt engineering techniques for optimal AI interactions
- Technologies: React, Node.js, Express, Multiple AI APIs, Axios
- GitHub: [AssistFront](#) | [Backend](#)

Pet ID Tags Platform

- Full-stack application for creating smart pet ID tags with QR codes
- Built PostgreSQL database with efficient schema for pet profiles and owner contacts
- Implemented user authentication and secure profile management
- Created QR code generation linking to dynamic pet profile pages
- Containerized application using Docker for consistent deployment
- Technologies: React, Node.js, PostgreSQL, Docker, QR Code Generation

- GitHub: [Frontend](#) | [Backend](#)

Portfolio Website Enhancement

- Developed modern portfolio site showcasing projects and technical skills
- Implemented dark mode with localStorage persistence and system preference detection
- Built responsive design with Tailwind CSS and custom animations
- Integrated contact form with email API
- Live at: erb-think.com
- Technologies: React, Tailwind CSS, Webpack, Email API Integration

Visible Supply Chain (Maersk)

Supply Chain / Integrations Specialist | Feb 2023 - Dec 2023

Performance-Critical System Integration & Modernization

Framework Modernization

- Migrated .NET Standard 4.61 hybrid application to .NET Core 7.0
- Reduced API response times by 40% through in-memory caching implementation
- Decoupled monolithic architecture using composition patterns and dependency injection
- Improved testability through interface-based design

High-Volume API Integration

- Built multithreaded processing for concurrent carrier API requests (USPS, FedEx)
- Implemented retry logic and circuit breaker patterns for peak-time reliability
- Developed address validation and route optimization services
- Integrated NLog for comprehensive application and SQL Server failure tracking

System Architecture

- Architected scalable microservices for external carrier system integration
- Implemented secure authentication and error handling for shipping operations
- Created optimized T-SQL stored procedures for client data processing
- Managed Azure DevOps CI/CD pipelines and source control workflows

Willis Towers Watson

Full Stack Software Engineer | 2016 - Aug 2022

.NET Application Modernization & React Component Development

Application Modernization

- Led migration of multiple legacy .NET applications to .NET Core
- Maintained backward compatibility while improving performance by 30%
- Updated Entity Framework implementations with .edmx files and XML schema design
- Implemented performance optimizations, reducing page load times

Component Library Development

- Developed enterprise-wide React.js component library for UI consistency
- Created reusable components using Bootstrap and React-Bootstrap
- Established coding standards and documentation for component usage
- Reduced development time for new features by 25% through reusable components

API Development & Integration

- Built RESTful Web APIs with Microsoft Identity, Auth0, and JWT authentication
- Implemented secure inter-service communication with Bearer token authorization
- Created comprehensive API documentation using Swagger/OpenAPI
- Developed automated testing suites ensuring feature parity across deployments

Performance & Reliability

- Utilized SumoLogic for troubleshooting and performance monitoring
- Implemented SQL Server profiling to optimize long-running queries
- Analyzed execution plans and created database indexes for performance gains
- Maintained GitHub source control with TeamCity builds and Octopus Deploy CI/CD

Gold Point Systems

Software Developer | 2013 - 2015

WPF/MVVM Desktop Application Development for Financial Services

Desktop Application Development

- Designed production WPF/MVVM applications for loan origination processing

- Implemented complex data binding patterns and INotifyPropertyChanged interfaces
- Built real-time UI updates with async/await patterns to prevent UI blocking
- Developed custom controls and user experiences for financial agents

Reporting & Data Management

- Created custom statistical reporting applications using C# drawing libraries
- Built complex SQL reports for Credit Union regulatory compliance
- Developed data migration and transformation tools for client onboarding
- Implemented stored procedures for efficient data aggregation and processing

Tech Systems

IT / Systems Administrator | 2012 - 2013

Infrastructure & Systems Management

- Configured and deployed engineering workstations with specialized software (SolidWorks, CNC)
 - Implemented Nagios monitoring server for system availability tracking
 - Maintained asset inventory and network infrastructure
 - Set up wireless bridges, cabling, and network switches
-

Recent Projects & Contributions

Porch Financial Integration Testing

Contract Position | 2 months in 2023

- Tested platform migration from legacy system to modern architecture
 - Implemented REST API integration with event-driven architecture
 - Applied Behavior Driven Development (BDD) for integration testing
 - Validated real-time data synchronization across system boundaries
-

Education

Weber State University

Bachelor of Science, Computer Science | 2011 - 2014

- Concentration: Software Engineering & Network Security
- Coursework: Software Development, Database Systems, Network Architecture

Certifications & Training

In Progress (Exam dates: November 2025)

- CompTIA Cloud+ (CV0-004)
- AWS Certified Solutions Architect - Associate (SAA-C03)

Key Differentiators

Problem-Solving Approach

- Deep understanding of performance optimization and memory management
- Experience with high-throughput, mission-critical applications in regulated industries
- Proven ability to modernize legacy systems while maintaining business continuity

Technical Versatility

- Full-stack capability across desktop (WPF), web (React/Node), and cloud platforms
- Strong foundation in both object-oriented and functional programming paradigms
- Rapid learner staying current with emerging technologies (AI integration, cloud architecture)

Professional Growth

- Actively pursuing cloud certifications to expand architectural expertise
- Developing practical applications to solidify theoretical knowledge
- Contributing to open-source and building portfolio of modern applications

Additional Information

- **Location:** Available for remote opportunities or relocation
- **Availability:** Immediate
- **Work Authorization:** US Citizen

References available upon request