

Christopher J. Bales

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Professional Summary

Passionate full-stack programmer with 15+ years of professional experience specializing in the .NET ecosystem. Proven track record of designing, engineering, and maintaining enterprise-scale web applications, database solutions, and modern UI/UX front-ends for both commercial and DoD clients. Committed to continuous learning, modern engineering practices, and integrating emerging technologies like local AI orchestration.

Security Clearance

- **Secret** (Active)
- **Top Secret** (Interim)

Technical Skills

- **.NET Ecosystem (Advanced):** .NET 1-11, C#, VB.NET, MVC, Blazor, MudBlazor, DI, Middleware, Filters, APIs, Microservices, Full Stack Architecting
- **Data & Storage (Advanced):** T-SQL, PostgreSQL, DB2/iSeries, MySQL, SQLite, DynamoDB, Redis, Entity Framework, Model Scaffolding & Migration
- **Frontend & UI (Advanced):** TypeScript, JavaScript, jQuery, HTML, CSS, Sass, Bootstrap, Bulma.IO, Material UI, JSON, Ajax
- **DevOps & Tools (Advanced):** Git, Team Foundation Server (TFS), Visual Studio Pro, VS Code, Rider, SSMS, Datagrid, TeamCity CI/CD Pipelines
- **Testing & Security (Proficient):** Unit/Acceptance Testing (NUnit, Selenium, MS.Sockets), FORTIFY Static Code Analysis, Qodana, STIG compliance
- **Other (Familiar):** Python, Ruby (on Rails), Java (with NHibernate ORM), PHP, dotPeek Reverse Engineering, Highcharts, D3.js, OAuth 2.0 (Google, Facebook, Azure)
- **AI Tools (Familiar):** Langchain for .NET, Antigravity agentic orchestration, Claude Code, Codex, Ollama CLI

Professional Experience

T&W Operations | Huntsville, AL

Software Developer (March 2025 – Present)

- Architect and develop an RFID-based inventory management system utilizing a .NET 8 API and a Blazor WebAssembly (WASM) SPA.
- Design and program a COLTS-based supplemental web application to support a UAS warfighter inventory system in .NET 8.
- Architect and develop a customer-facing .NET web portal for managing licenses, media-based tutorials, online quizzes, and software management.
- Develop and maintain a web-based LLM with Langchain and a retrieval-augmented generation (RAG) vector embedding to retrieve customer-centric data
- Manage TeamCity - Create CI/CD Pipeline for continuous Test and Delivery

System Studies and Simulation, Inc. | Huntsville, AL

Web Developer (October 2024 – January 2025)

- Designed and engineered a training platform using .NET MVC, transitioning from an existing non-normalized legacy SQL Server database design.
- Maintained and supported a critical ongoing Costpoint/Deltek data synchronization system.
- Managed internal .NET MVC tracking tools managing time-sensitive corporate events including employee onboarding and termination.

Gleason Research Associates | Huntsville, AL

Software Developer (January 2019 – February 2024)

- Designed and engineered full-stack .NET web applications for government-related inventory management.
- Spearheaded the transformation of the corporate intranet portal, migrating a legacy PHP website into a modern .NET Core framework integrated with Costpoint Deltek contracts.
- Formulated and executed FORTIFY Static Code Analysis scans to ensure strict adherence to STIG security standards.
- Mentored junior developers in enterprise software design patterns, architectural concepts, and engineering best practices.

PeopleTec, Inc. | Huntsville, AL

Web Application Developer (October 2018 – January 2019)

- Implemented complex features for a custom .NET MVC web application leveraging DevExpress and DevExtreme plugins.
- Built dynamic PivotGrid and PivotChart data visualizations to handle generic user data queries.

Bank Independent | Decatur, AL

.NET Developer (January 2018 – September 2018)

- Designed and developed custom internal banking software using .NET MVC alongside a standalone WPF desktop application under Git and TFS version control.
- Maintained, optimized, and generated analytical reporting for legacy database solutions on DB2/iSeries platforms.

Gleason Research Associates | Huntsville, AL

Software Developer (August 2016 – December 2017)

- Developed a full-stack inventory management and traceability web solution for DoD and commercial clients utilizing VB.NET, SQL, Entity Framework, CSS, and JavaScript.
- Maintained legacy inventory systems (ASTSInventory.com) to support evolving client customer requirements.
- Collaborated daily with project stakeholders, requirements analysts, and QA teams to deploy robust web platform capabilities.

Curse, Inc. | Huntsville, AL

.NET Web Developer (February 2014 – July 2016)

- Designed and implemented core features for major high-traffic, in-production gaming websites using C#, MVC, SQL, and JS/Ajax/jQuery.

- Created and maintained database importer utilities transferring large datasets across various technologies including Redis, MySQL, MS Access, and proprietary constructs to SQL Server.
- Partnered directly with product teams to build and scale massive web communities, including *minecraftforum.net*, *diablofans.com*, and *mtgsalvation.com*.

Apogee Informatics, Inc. | Madison, AL

Software Engineer (September 2013 – February 2014)

- Served as the primary full-stack web developer (VB.NET) and systems engineer for core Apogee Informatics web initiatives.
- Managed high-level engineering refactoring efforts, new feature development, and complex bug resolutions.

Analytical Mechanics Associates | Huntsville, AL

Programmer Analyst (March 2013 – September 2013)

- Built a custom C++ data importer tool to extract data from a proprietary Cradle Requirements Traceability database into MySQL.
- Developed Bash shell and Ruby scripts to automate data pipeline processes for a major Requirements Management database.
- Served as Primary Investigator for the SharePoint Architecture Plan supporting the Marshall Space Flight Center Huntsville Operations Support Center (HOSC).

Curse, Inc. | Huntsville, AL

Technical Support Engineer (April 2010 – March 2013)

- Deployed critical software updates (.NET MVC) and coordinated complex database schema updates across production web environments.
- Developed and maintained an internal C# Windows Forms financial reconciliation application processing financial institution reports into Access databases.
- Engineered automated Unit and Acceptance testing suites utilizing Selenium Web Driver, NUnit, and AutoIT scripts.

Education

- **Bachelor of Science in Computer Science** (Mathematics Minor) | University of Alabama in Huntsville, 2012
- **Bachelor of Arts in Liberal Arts** | University of Alabama at Birmingham, 2008

Certifications

- **AWS Cloud Solutions Architect Associate** ([link](#))
- **Microsoft Front-End Developer** ([link](#))
- **Building Data Lakes on AWS** ([link](#))
- **Architecting Solutions in AWS** ([link](#))