

David Fried

david@rightbuildtech.com • [LinkedIn](#) • [RightBuild Technologies](#)

PROFILE

Founder and principal software developer with 5+ years of experience designing, building, modernizing, and supporting secure enterprise applications, backed by more than a decade of experience in data analytics, statistical programming, and automation. Experienced across full-stack .NET development, SQL Server, data engineering, workflow automation, REST APIs, legacy modernization, analytics, and secure system integration. Combines software engineering with extensive experience in statistics, analytics, and quantitative research to translate complex operational requirements and data into practical, maintainable systems.

TECHNICAL SKILLS

C# • ASP.NET MVC • ASP.NET Core • ASP.NET Web API • Razor Pages • SQL Server • Dapper • Python • R • JavaScript • REST APIs • JSON • ETL & Data Migration • Workflow Automation • Legacy Modernization • Authentication & Authorization • Windows Authentication • Token-Based Authentication • Secure Cookies • Role-Based Access Control • Secure Software Design • Performance Optimization • Technical Documentation • Requirements Analysis • Git • Linux • Nginx • IIS

Analytics & Quantitative Methods: Statistical modeling, predictive analytics, machine learning, regression, data visualization, KPI reporting, research design, factor analysis, and psychometrics

PROFESSIONAL EXPERIENCE

Founder & Principal Software Developer

RightBuild Technologies (HR Data Solutions LLC) | June 2024 – Present

Founded a software consulting company focused on custom business systems, workflow automation, data migration, secure web applications, analytics, and modernization.

- Design and develop custom ASP.NET Core applications, internal business systems, workflow automation, and data-driven solutions.
- Architect relational database solutions and extensible data models using SQL Server, including Entity-Attribute-Value (EAV) designs where appropriate.
- Develop Python ETL pipelines to ingest, transform, validate, normalize, and migrate historical and operational data.
- Modernize legacy ASP.NET MVC applications to ASP.NET Core and Razor Pages while preserving required business functionality.
- Lead architecture, backend development, database design, security implementation, deployment, maintenance, and ongoing enhancement throughout the software lifecycle.
- Work directly with customers to analyze business processes, identify automation opportunities, define requirements, and produce technical documentation, implementation plans, and system designs.

Data Scientist II | Lead Software Developer

Knowesis, Inc. | January 2021 – Present

Architect and primary software developer for a secure enterprise platform comprising multiple ASP.NET MVC and ASP.NET Core applications supporting government psychologists, administrators, and candidates throughout the personnel assessment lifecycle.

- Architected and maintained a secure enterprise software platform comprising multiple web applications, REST APIs, and SQL Server databases totaling more than 200K lines of application code, including

50K+ lines of C# backend logic and 11K+ lines of SQL.

- Designed and integrated secure RESTful APIs using C#, ASP.NET Web API, SQL Server, and JSON across dashboards, candidate portals, administrative tools, reporting modules, and analytics workflows.
- Implemented Windows Authentication, role-based authorization, server-side validation, and other secure application controls in a regulated government environment.
- Supported Authority to Operate (ATO) activities through Application Security Technical Implementation Guide (STIG) implementation, security hardening, vulnerability remediation, and Risk Management Framework (RMF) compliance work.
- Designed reusable validation and autosave components supporting 700+ dynamic questionnaire fields with conditional logic, cross-field rules, dependent-date constraints, and data-integrity protections.
- Developed backend services integrating and processing 1,000+ assessment variables per candidate for longitudinal analysis and structured assessments.
- Designed scalable application architecture and extensible EAV data models to support long-term maintainability and modernization.
- Built Python ETL and automated test pipelines for data ingestion, transformation, validation, endpoint testing, and regression checks.
- Optimized SQL queries and backend processing across a SQL Server database containing well over 100 tables.
- Partnered directly with government stakeholders and technical teams to gather requirements, troubleshoot production issues, deliver enhancements, and lead modernization from ASP.NET MVC/.NET Framework toward ASP.NET Core.

Employment Testing Specialist

City of Chicago / Cuyahoga County PRC | December 2014 – December 2020

- Developed Python and VBA automation tools for personnel-selection analytics and reporting.
- Designed more than 100 employment assessments and led KPI reporting initiatives supporting large-scale public-sector hiring operations.
- Automated reporting workflows to reduce manual effort and improve data quality; participated in technical evaluation of multimillion-dollar software contracts.

Statistics Instructor

Wyzant | October 2013 – December 2014

- Taught applied statistics, SPSS, Excel, and quantitative analysis.

Consultant

ALPS Insights | November 2011 – October 2013

- Developed statistical software and automated reporting solutions supporting government research.
- Applied regression, factor analysis, and psychometric methods and delivered technical reports supporting federal decision-makers.

Graduate Researcher & Instructor

Ohio University | September 2007 – June 2011

- Conducted quantitative research using advanced statistical methods; published and presented research at national conferences.
- Taught undergraduate statistics courses.

EDUCATION & CERTIFICATION

CompTIA Security+ — [Verify Credential](#)

Data Science & Visualization Certificate — Northwestern University

M.S., Industrial & Organizational Psychology — Ohio University