Jeremy Brown

software architect/developer

Contact

2800 Bedford Rd.
Northlake, TX 76226
214-803-2198
jeremy@browns.info

Key Skills

Technical Team Leadership
Software Development Lifecycle
System Design and Architecture
System Maintenance and Support
Oral and Written Communication
Troubleshooting and Problem-Solving

References

George Crawford
214-803-1323
gcrawford3@gmail.com

Gary Bell
214-674-5397
garybell.home@gmail.com

Jonathan Allen
469-226-5932
jonathanfallen@gmail.com

Summary

Methodical and solution-focused Chief Software Architect with 23+ years of full-stack software engineering experience. An expert in software development lifecycle with a proven history of developing backend services and user interfaces for desktop and web. Proficient in using .NET, C#, and AWS/Azure to create scalable and high-performing solutions.

My resume is structured to highlight the projects and the tech stack each product uses.

Experience

June 2025 – Present
Senior Software Engineer • GM Financial

November 2024 – June 2025
Senior Software Engineer • Mouri Tech (contracted to OneStream Software)

February 2001 – August 2024
Chief Software Architect • Acre Security (previously Open Options)

Technologies

Frameworks and Platforms
.NET, ASP.NET Core, WPF, Blazor, Docker, Azure Functions, GitHub Copilot

API Design and Documentation
SOAP, XML-RPC, RESTful APIs, SignalR, gRPC, Swashbuckle/Swagger, MQTT, MSMQ, GraphQL, Microservices

Authentication and Security
OAuth 2.0/OpenID Connect, Identity Server 4, Auth0, Authentik, Azure B2C, Active Directory Federation Services, Azure Key Vault

Data Access and ORM
Entity Framework Core, Telerik OpenAccess, RemoObject Data Access, Azure Cosmos DB

Cloud Services and Infrastructure
Azure Blob Storage, Azure Event Hubs, Azure Application Insights, KQL (Workbooks & Queries), Azure Pipelines, Terraform

Jeremy Brown

software architect/developer

Acre Security

Chief Software Architect

Project

Flex API v2

Technology

ASP.NET Core
Entity Framework Core
AutoMapper
Dependency Injection
Mediatr
MQTTnet
Blazor
OpenID Connect / OAuth 2.0
DevExpress Components
Swashbuckle/Swagger

Public Repo

https://bitbucket.org/ooaccess/flex-api-samples

Summary

Complete V1 API rewrite using asp.net core 7.0. The API is split up between multiple projects. I was the project's sole designer and developer.

Flex API

API service and host for the Blazor frontend. Store/repository pattern. API controllers with a custom pre-processor implementation that ensures data provided to the stores is correct. Responses are based on a JSend. This simplifies third-party integrations as the response is always guaranteed.

FusionX

Blazor WebAssembly application to provide a web-based and PWA frontend for the API.

Flex Identity

OpenID Connect and OAuth 2.0 framework based on Identity Server 4.

Flex MQTT

MQTT broker for providing real-time events, alarms, and status.

Flex Reports

Banded reports and DataViz dashboard API using DevExpress.

Flex Relay

Interop communication service between the DNA Fusion driver and the Flex API.

Flex Tunnel

Wrapper around Cloudflare Argo Tunnel to provide a hybrid solution so that on-prem access control can be accessed via the cloud without having to expose itself through any firewall port forwarding.

Flex Proxy

Wrapper for Microsoft YARP. Used when deploying Flex via Docker.

Jeremy Brown
software architect/developer

Acre Security

Chief Software Architect

Project

Flex API v1

Technology

.NET 4.5
XML-RPC
Telerik Open Access ORM

Public Repo

Summary

Allows for third-party applications to integrate into the access control application. Initially developed for FIPS 2.01, but then expanded into a saleable product. I was the project's sole designer and developer.

Over two thousand deployments and over five hundred API licenses grant end-users the rights to develop their integration for internal use.

- C# VS2013 service using HTTPListener so that it can coexist with existing websites in IIS.
- Developed sample applications, client NuGet packages, and the documentation for it.
- NuGet packages also contain LINQPad scripts for quick scripts, demonstrating how to use the API.
- Provide one-on-one support with developers integrating the project.
- Currently, the heaviest load is from a PSIM polling every fifteen microseconds.
- Silverlight web application hosted by the API.
- Flex Companion application for the Silverlight application. Allows complete badging support with card encoding and biometric enrollment through the web application.
- iOS and Android client applications created using Xamarin for common backend code with separate UI (before Xamarin Forms).
- Install created with Inno Setup.
- Milestone and Exacq video feed relay provides video into the Silverlight web and mobile applications.

Jeremy Brown

software architect/developer

Acre Security

Chief Software Architect

Project

Misc. C# projects.

Technology

.NET Full Framework
WPF
Telerik OpenAccess ORM
Tiny ICD
Cake Build Scripts
Inno Setup

Summary

The following projects were all developed using .NET full framework and Visual Studio.

DNA Fusion Diagnostics
- Gather log files and system information for troubleshooting.
- Most sites run in an offline, closed network environment for security; therefore, we needed a tool to gather as much system information as possible that can be used for identifying issues.

HID Omnikey card reader
- COM Object integrated into the badging product to read HID iClass cards when printing badges.

Schlage HandKey reader
- COM Object integrated into the badging product for hand geometry enrollment into the access control product.

FusionSLi
- Offline lock application to configure and process events for the Schlage CM family locks.

Axis A1001 Integration
- Custom service/driver to configure and retrieve transaction history using a combination of Onvif Profile C, A, and VAPIX.
- Largest install currently handles a few hundred controllers.

License website
- Website for editing and providing licensing for all products.
- Knockout JS

Jeremy Brown

software architect/developer

Acre Security

Chief Software Architect

Project

Misc. Delphi projects

Technology

Delphi 6-2007
RemObjects
Raize Components
DevExpress
LMD Tools
Berg
TMS
JCl/JVCL
Delphi Fundamentals
Turbo Power

Summary

The following projects were developed using either Delphi 6, 7, or 2007.

Badging System
- Still in use today
- COM objects
- Fargo, Magicard, Canon, HID, Card Scanning Solutions.
- E-card technology includes HID OmiKey and Allegion OEM-200 readers.

WayPoint Visitor Management
- Integrated into DNA Fusion access control application which could verify visitor sponsors were in the building. Activate and deactivate temporary access control credentials to the visitor.
- Integrated into Schools Interoperability Framework (SIF), which was used for verifying students and issuing tardy passes.

License Scheme
- Developed the current software registration procedure and applications.
- License scheme allows for permanent or temporary, software or hardware based (USB key) licensing with unlimited features.
- Features are easily configured via an internal website and automated into the billing system.
- Features can be individually and temporarily enabled for demos.