

# Chadwick Smith

Software & UX Engineer

(303) 827-8760 • <https://wick.com> • [wick@wick.com](mailto:wick@wick.com)

## Summary

I polish user experiences, architect and code for mobile, web, cloud native, and desktop. I foster multi-disciplinary technical prowess and aesthetic finesse by provoking pixels and coding responsive applications. Computing as a lifestyle for over two decades emits a spectrum of skills and proven processes. Aspirant polymath, self-driven to learn through curious experimentation and analytical conclusion.

## Education

**Kansas City Art Institute** • Foundations, Computer Animation • 1993 – 1994

## Skills & Technologies

### Platforms

Xamarin Native • Xamarin.Forms • Android • iOS • WPF • Azure • Meadow • Silverlight • HTML5 • Xbox 360 • FreeSWITCH

### Development Tools

Visual Studio 2022 • Visual Studio Code • Android Studio • Xcode • Docker • App Center • Azure DevOps • Azure AD B2C • Postman • JIRA • Bugzilla • Eclipse • Virtual Box • Parallels • Git • TFS • SVN • CVS • VSS • Code Smith • T4 Templates • VVVV

### Languages & Markup

C# • .NET Core 8 • XAML (all flavors) • HTML5 • SCSS • TypeScript • JSON • Protobuf • XML • XSD • SQL

### Software Development

SOLID Principles • Dependency Injection • Model View ViewModel • Reactive Programming • Asynchronous Programming • Event Driven Programming • Object Oriented Programming • Service Oriented Architecture • Interface Driven Development • Model View Control • UX/UI • GUI • NUI • VUI • Requirements Analysis • Software Architecture • Software Development Life Cycle • Troubleshooting • Debugging • Problem Solving • Deployment

### IoC Containers

Microsoft Dependency Injection • TinyIoC • Autofac • Ninject

### Web Technologies

ASP.NET Core 8 • WebApi • Microservices • SignalR • REST • Lottie • HTML5 • CSS3 • XML • Node.js • NPM • Webpack • GSAP • KnockoutJS • AngularJS • jQuery

### Libraries & Extensions

Microsoft Dependency Injection • TinyIoC • Autofac • Ninject • Reactive Extensions • AKKA.NET • SQLite.NET • Polly • Serilog • Nunit • xUnit • P/Invoke

### MVVM Frameworks

MVVM Community Toolkit • MvvmCross • ReactiveUI • MVVM Light • FreshMVVM • Prism

### Database & Modeling

PostgreSQL • TimescaleDB • MS SQL Server • SQLite • Azure SQL • Redis • EF Core 8.0 • Nhibernate • Devart Entity Developer • ERWin • ERStudio

### IoT

Meadow.Foundation • .NET Core on RaspberryPi • MQTT • Modbus • RS485

### Content Creation

Affinity Designer • Affinity Photo • Affinity Publisher • Adobe Photoshop • Adobe Illustrator • Adobe XD • Adobe After Effects • Adobe Premiere • Davinci Resolve • Maya • Lightwave • Nuendo

## Selected Recent Experience

### Atmosfera / Wintellect • Senior Consultant • 2019 – 2022

*Xamarin.Forms • C# • XAML • iOS • Android • .NET Standard • .NET Core • WebApi • AWS Lambda • Azure DevOps • Azure Pipelines • Azure AD B2C • App Center • Git • Moq • xUnit*

- Implemented MVVM patterns using view model first navigation in Xamarin.Forms, iOS, Android, and C#
- Conducted view materialization via XAML bound to underlying view models for application controls
- Integrated ACH and debit card financial API into the mobile application
- Constructed new features in the payment API and integrated them into the Moli mobile application
- Integrated and managed new feature roll outs with feature flags using Optimizely
- Designed core library, interfaces, and REST services with Refit, models, view models, logic, and bootstrap using C#
- Created an HTTP handler pipeline to facilitate certificate pinning and HTTP request resilience using Polly
- Developed unit tests using Moq and xUnit
- Managed CI/CD with App Center

**Moli** available on the [Apple App Store](#) • [Google Play Store](#)

### Apricity Health • Senior Mobile Engineer • 2018 – 2019

*Xamarin.Forms • iOS • Android • C# • XAML • .NET Standard • GitLabs • App Center • Git • xUnit • JSON • Node.js • Bluetooth LE • Affinity Designer*

- Refactored event handling to MVVM, exposing control life cycle events and view construction factory using C#
- Implemented health vitals controls for displaying Apricity artificial intelligence agent API interaction
- Developed .NET Standard library with interfaces, REST, models, view models, logic, and startup using C#
- Implemented MVVM binding, INPC, commanding for target platforms using Xamarin.Forms and C#
- Integrated first-class, cross-platform health and vitals functionality with BluetoothLE peripherals
- Maintained adherence to iOS and Android human interface guidelines
- Supported and passed a clinical trial, determining proper protocol for further application use
- Implemented CI/CD with Azure DevOps Pipelines using Fastlane to deploy to AppCenter

**ApricityCare** available on the [App Store](#) • [Google Play](#)

### Oakwood Systems • Senior Mobile Architect • 2017 – 2018

*C# • .NET Core • Xamarin • iOS • Android • MvvmCross • VSTS • App Center • Git • WebApi • JSON • Bluetooth LE • Affinity Designer*

- Designed .NET Standard library for interfaces, REST services, plugin definitions, models, business logic using C#
- Implemented MVVM patterns, including data binding, INPC, and commanding using MvvmCross and C#
- Developed view presenters, controls, bindings, converters for iOS and Android with MvvmCross and C#
- Hand-coded, type-safe iOS view controllers using FluentLayout
- Integrated with accessibility and dynamic type with traits using iOS SDK
- Utilized fragments, adaptive layouts, item templates, custom controls and app bars with AXML and C#
- Enabled continuous integration for Xamarin iOS and Android using xUnit, VSTS, and VS App Center
- Designed UX views and created targeted resolutions for multi-screen assets using Affinity Designer
- Maintained adherence to iOS and Android human interface guidelines

**Drury Hotels** available on the [App Store](#) • [Google Play](#)

### Deloitte • Xamarin Mobile Architect • 2016 – 2017

*C# • Xamarin • MvvmCross • LINQ • Portable Class Libraries • Dependency Injection • Interface Driven Development • Android • iOS • Windows Phone 8*

- Conducted due diligence and provided recommendations for internal, reusable portable class libraries in Xamarin
- Debugged internal issues related to unknown nested IoC containers
- Recommended MvvmCross for cross-platform development with Xamarin.Android and Xamarin.iOS

### HippaChat • Xamarin Developer • 2014

*C# • Xamarin • MvvmCross • Android • iOS • LINQ • Portable Class Libraries • Dependency Injection • Interface Driven Development*

- Developed various controls for the HippaChat application using Xamarin, C#, MvvmCross
- Wired up device-independent services using C# in PCLs, enabling functionality across multiple platforms
- Implemented MVVM data binding using MvvmCross, C# and Android AXML layouts for UX
- Utilized the MvvmCross framework for cross-platform development with Xamarin

### 5th Column • Software Engineer • 2013 – 2014

*C# • Xamarin.Android • Xamarin.iOS • MvvmCross • Dependency Injection • SQLite • SQLite.NET • LINQ • Portable Class Libraries • Android • iOS • Objective-C • Xcode • OpenStack • Seafile • Photoshop • Illustrator • After Effects*

- Created multi-provider mobile cloud storage clients for Android, iOS & WP8 using C#, Xamarin and MvvmCross
- Implemented core logic using dependency injection, interface abstractions, SQLite, REST, JSON and Seafile
- Developed common REST services using JSON message format and LINQ utilizing async await
- Implemented local persistence for file tracking and versioning using SQLite.NET
- Designed and integrated platform-specific UX using C#, MVVM, Android AXML, Xcode XIB, and XAML
- Branded UX on open-source project Android, iOS with multi-density devices
- Published the application on the Apple App Store and Google Play Store

### Ratio Interactive • Windows Platform Developer • 2013

*C# • Windows Phone 8 • Windows 8 • Windows Runtime • LINQ • XAML • Blend 2013 • SQLite • SQLite.NET*

- Developed data syncing for various file formats through REST APIs and Windows 8 Background Transfer API in C#
- Designed and implemented offline persistence layer using SQLite and SQLite.NET for mobile applications
- Implemented notification mechanisms for file transfers using C# and XAML
- Integrated UX elements into client applications using C#, Blend, XAML and custom MVVM implementation
- Updated Windows Phone and Windows 8 applications using C# and XAML
- Published applications on Microsoft Store

**Projects:** AT&T Locker pre-installed on Windows 8 tablet • Microsoft Money for Windows Phone

### IdentityMine • Senior UX Developer • 2012 – 2013

*C# • XAML • LINQ • Blend • MVVM • MEF • Kinect for Windows • Windows 8 • Silverlight • Xbox 360 • SQL Server 2008 • Kinect for Windows • NFC • Pressure Sensitive Touch Devices • Rx Framework • P/Invoke • LibNFC*

- Implemented UX views, view models, and interfaces for Xbox 360 applications using C# and XAML
- Developed Windows Phone, WPF, and Xbox client API requests & serialization using C#, JSON and REST
- Implemented views and view models (MVVM) for Xbox 360, Windows Phone, and Windows 8 using C#, XAML
- Developed custom Blend behaviors for formatting XAML Data Templates in observable lists
- Conducted research on Near Field Communication (NFC) opportunities using LibNFC
- Cross-compiled C libraries and implemented P/Invoke wrappers for LibNFC in C#.NET in WPF applications
- Developed Portable Class Libraries, Java library bindings, and native library interop with C# and Xamarin
- Created observable queues for polling HTTP requests using async / await
- Published applications on the Microsoft Store

**Projects:** Pizza Hut for Xbox 360 • Nike+ Kinect Training for Windows Phone • PopMoney for Windows 8

### Microsoft UX/CS Labs • Customer Experience Developer • 2012

*C# • WPF • LINQ • Blend • MVVM • MEF • Kinect for Windows • VVVV • Windows Phone • WCF Data Services • OData • Entity Framework • Azure • Azure SQL • Azure Blob Storage • Rx Framework • O-Nario • ASP.NET MVC 3 • HTML5 • CSS • JavaScript • jQuery*

- Developed Windows Kinect, NUI enabled prototypes for video walls using C#, WPF, MVVM, MEF, and Blend
- Implemented multi-display environments with interactive zones using VVVV, C#, WPF, MVVM, MEF, and Blend
- Developed Windows Store Associate applications for Windows Phone
- Implemented UX for Windows Phone applications using C#, XAML, Blend 4, and a couple of handy frameworks
- Developed WCF Data Services exposing OData & OAuth via Entity Framework Code First and Azure SQL
- Participated in the development of a marketplace kiosk application using C#, ASP.NET, MVC3, HTML5, and CSS
- Created VVVV Kinect for Windows bindings using C# for real-time interactive motion graphics & visualizations

### AMC Theaters • Application Developer • 2011

*C# • Silverlight 4 • Blend 4 • MVVM • LINQ • Prism • Telerik Controls • Entity Framework 4 • WCF • SQL Server 2008*

- Led a small team, providing guidance on best practices and implementation for Silverlight and WCF development
- Designed and implemented a Silverlight 4 application to manage customer loyalty programs and point of sale data
- Utilized Visual Studio 2010, C#, Blend 4, and adhered to the MVVM pattern using Prism and MEF
- Developed multiple service stacks using WCF and Entity Framework 4
- Implemented UX using XAML and Blend 4

### Bayer CropScience • Application Developer • 2011

*C# • Silverlight 4 • Blend 4 • XAML • MVVM Light • LINQ • MEF • Telerik Silverlight Controls • Telerik Reporting • DevForce • Entity Framework 4 • WCF*

- Designed and implemented reporting application using Silverlight
- Integrated with StarLiMS and SAP data utilizing DevForce and SQL 2008
- Developed a Silverlight 4 application using Visual Studio 2010 with MVVMLight
- Implemented XAML views using Blend 4 with design time data
- Created charts using Telerik Reporting for laboratory information management systems

### Burns & McDonnell • Application Developer • 2010 – 2011

*C# • Silverlight 4 • Blend 4 • XAML • MVVM • MEF • WCF RIA Services • Entity Framework 4 • SQL Server 2008 • Photoshop*

- Developed and implemented an RIA UX to manage critical network assets for nuclear reactors using Silverlight 4
- Designed XAML views using Blend 4 and design time data with MVVM
- Implemented service repositories using WCF RIA Services and Entity Framework

### VML • Application Developer • 2010

*C# • WPF • Windows Phone • Silverlight • Blend 4 • XAML • MVVM • MEF • SQL Server 2008 • WCF • AMF3 • HTML • CSS • JavaScript • Photoshop*

- Developed MVVM WPF application for touch screen Windows 7 tablet hardware
- Developed MVVM phone application using Windows 7 SDK and Silverlight 3
- Integrated dynamic data using existing XML web services
- Implemented views using Blend 4 with design time data
- Implemented ePub to XAML conversion with stylus and touch-based text highlighting
- Developed a per-subdomain user library for site themes using C#, ASMX, XML, Flash, ASP.NET, and Web Forms
- Implemented data libraries in ActionScript 3
- Extracted data from Hoovers database using SOAP and SQL Server 2008
- Performed various site updates and bug fixes

### Projects:

Copia eReader for Windows 7 Tablets & Windows Phone – *featured by Bill Buxton at Tech Week 2010*  
Xerox – Business of the Brain Website  
Hershey’s – Website  
Dannon Activa – Website

### SimplyRaise • Senior Software Engineer • 2008 – 2009

*C# • ASP.NET • HTML • CSS • JavaScript • SQL Server • HTTP Modules • WCF • Flash • CodeSmith • Photoshop • Multiple Payment APIs*

- Gathered requirements and scoped features based on immediate client needs and long-term product goals
- Modeled the database schema using ERWin to support the initial release and future product iterations
- Designed and developed an ASP.NET n-tier enterprise Service-oriented Architecture
- Utilized code generation tool CodeSmith for rapid creation of ORM in C#, targeting SQL Server 2008
- Designed and developed the presentation layer using ASP.NET, AJAX, HTML, CSS, C#, and Photoshop
- Implemented a dynamic URL rewrite HTTP Module in C# and ASP.NET for on-the-fly sub-domains
- Integrated abstracted payment APIs to access multiple payment gateways using C#
- Developed a per-subdomain user library for site themes using C#, ASMX, XML, Flash, ASP.NET, and Web Forms
- Implemented Flex remoting/RPC data access layer and API with Fluorine FX, AMF3, C#, and ActionScript 3
- Implemented real-time dynamic PDF reporting tools

### Mondo Robot • Senior New Media Developer • 2007 – 2008

*C# • Silverlight • Blend • XAML • ASP.NET • WCF • SQL Server • Entity Framework • LINQ to SQL • JavaScript • HTML • CSS • AJAX • XML • ActionScript 3 • Flash • Flex • Granite Data Services • FlashDevelop • Photoshop • Illustrator • After Effects • VirtualDub • AviSynth*

- Managed technical processes and changes throughout project life cycle
- Developed maintainable web applications using ASP.NET and C#
- Implemented and extended AJAX components from the ASP.NET Ajax Toolkit
- Developed localized GUIs for Microsoft product micro sites with JavaScript, C#, WCF, Silverlight and XAML
- Developed reusable Silverlight 1 & 2 components in C#, JavaScript & XAML
- Developed data-driven object-oriented MVC applications in ActionScript 3, Flex Builder, Flash Develop, Flash CS3
- Implemented Flex remoting data layers with Granite Data Services, Fluorine FX, Java and C#
- Developed Windows Vista gadgets using Silverlight 1, XAML and JavaScript
- Developed ASP.NET content management framework in C# for managing content in both HTML and Silverlight
- Collaborated localized subtitling and multi-resolution video encoding of hundreds of videos using VirtualDub, AviSynth
- Batched with Animal Logic on the MoshKit schema to render 3d scenes, cameras, band characters, lighting
- Integrated Community Server for Microsoft Student Partners using C#, HTML, CSS, Microsoft SQL Server

### Projects:

Microsoft Robotics – RoboChamps – Website  
Microsoft Student Partners – Website  
Microsoft EDU – Website  
MoshKit – Flash website for creating custom 3D rendered popular music videos

### Looking Glass Systems • Senior Software Engineer • 2005 – 2007

*C# • Windows Services & Console Applications • X.509 • HMAC • XML • XSD • WSUS • WinPcap • Nmap • OPSWAT • InstallShield • ActionScript • Flash • FlashDevelop • JavaScript • HTML • CSS • Photoshop • Illustrator • InDesign • Lightwave • Maya • VirtualDub • AviSynth*

- Helped design a multi-threaded Windows gents capable of network monitoring and self-replicating deployments
- Implemented agent policy management, WSUS history, intrusion detection using C#, WinPcap and Nmap P/Invoke
- Integrated universal anti-virus for client endpoints, and forensic analysis machines using C#, OPSWAT
- Implemented authentication with x509, and process whitelisting / blacklisting using C#
- Utilized peer to peer messaging with XML, XSD, and Code Generation
- Integrated with JBoss application server for raw socket agent-collected communications
- Implement new Vision agent features, remediation commands using C#, XML, and XSD
- Implemented x509 dual authentication between C# Windows client and Java application server
- Designed network appliance hosted web interface using Flash 8, and ActionScript 2
- Developed a secure reporting, analytics, user management with role-based permissions
- Signed wire messages with HMAC Authentication
- Implemented RPC Windows Service for notifications and status in system tray, with Win Forms GUI application
- Implemented Install Shield Windows Service installer with remote update capabilities
- Authored with Animal Logic using After Effects, Lightwave 3D, Photoshop, and Illustrator
- Designed print collateral using Photoshop, Illustrator, Lightwave 3D, and InDesign

### Wells Fargo • Web Developer • 2004 – 2005

*C# • XML • HTML • CSS • JavaScript • Photoshop*

- Utilized C#, XML, HTML, CSS, and JavaScript to develop an IE Hosted User Control for uploading multiple files
- Developed business logic for various application components using C# and the .NET framework
- Implemented a CMS system for ad management and placement with .NET and Microsoft SQL 2000
- Designed the web interface presentation layer and handled graphics production and processing
- Developed the presentation layer of the web application using CSS and the .NET framework
- Established a virtual environment over HTML & HTML to enable remote development for the entire team

### Market Velocity • Senior Software Developer • 2002 – 2003

*C# • ASP.NET • ASMX • SQL Server 2000 • ERWin • Authorize.NET API • Flash • ActionScript 2 • XML • HTML • CSS • JavaScript • Photoshop • Illustrator*

- Gathered requirements and scoped features based on client immediate needs and long-term product goals
- Modeled the database schema using ERWin to support the initial release and future product releases
- Implemented custom ORM using service discovery, dynamic SQL, C# and Microsoft SQL Server 2000
- Developed DIME Web Service to accept attachments from 3rd party applications using C#, WSDL, XML and ASMX
- Created a Windows Service to synchronize content from external APIs using C#, XML, WSDL and ASP.NET
- Implemented secure, granular C# architecture with roles, permissions, and key locks using C#
- Integrated multi-vendor e-commerce functionality using DotNETSHIP, Authorize.net, C# and ASP.NET
- Created custom PDF collateral using form filling of complex visual designs to output print ready documents
- Built presentation layer with C#, ASP.NET, HTML, CSS and Photoshop

### Level (3) Communications • Senior Web Developer • 2000 – 2001

*HTML • CSS • ASP • Visual Basic • Java • JavaScript • SQL Server 7 • Flash • ActionScript 2 • XML • Photoshop*

- Developed an enterprise-level global training calendar with HTML, CSS, ASP, Visual Basic, XML and MS SQL Server
- Designed information architecture and user interfaces for internal courseware
- Created dynamic, AICC compliant courseware using Flash 5, ActionScript 2, Java and Pathware
- Researched the emerging technologies of SCORM and the future of e-Learning
- Conducted due diligence on 3rd party LMS offerings, opting for a managed and forward-thinking solution
- Oversaw enterprise LMS implementation, deployment, and migration from Pathware to Click2Learn

### Global Healthcare Exchange • Web Developer • 1999 – 2000

*Vignette Story Server • TCL • Oracle • Web Services • XML • PDFLib • HTML • CSS • JavaScript • Photoshop*

- Developed presentation layer for the CentriMed portal and public-facing website using HTML, CSS and Photoshop
- Developed views and logic using Vignette Story Server, and TCL, Oracle, HTML, CSS and Photoshop.
- Integrated external web services from third parties such as eCafe and GolfServe using XML, TCL, HTML and CSS
- Integrated iMail for email provisioning, management, and e-based mail hosting
- Integrated dynamic PDF generation of user-selected medical product catalogs using PDFLib

### Muller + Co • Interactive Developer • 1999

*HTML • CSS • JavaScript • ASP • Visual Basic • Flash • Lightwave • Photoshop • Director • Lingo*

- Developed presentation layer for Muller + Co client websites
- Authored CD-ROM for generating PDF product catalogs for Tivol Diamonds using Macromedia Director
- Created applications and presentations using HTML, CSS, Photoshop, Flash, Director, ActionScript and Lingo
- Wrote technical specifications with IBM for the development of the first Helzberg Diamonds online store
- Integrated creative into apps, static websites, and presentations using HTML, CSS, Flash, Director and Photoshop
- Created logo animation for a Honda broadcast commercial using Lightwave 3D and Photoshop

### Projects:

Helzberg Diamonds – eCommerce Website  
Payless Shoes – Website  
Missouri Tourism – Website  
Tivol Diamonds – Interactive Catalog