

# Clayton E. Gifford

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## EDUCATION

### University of Toledo

B.S. Computer Science Engineering

December 2004

Toledo, OH

## WORK EXPERIENCE

### CrowdStrike

Senior Software Engineer

July 2022 - Present

(Remote)

- Designed and developed the Crowdstrike store, <https://store.crowdstrike.com>
- Created dashboards for analysis in the falcon store using ember

### Criteo

Senior Software Engineer

May 2021 - July 2022

Ann Arbor, MI

- Championed the integration and development effort for Commerce Media Platform
- Designed Data Analytics Dashboards in React and Scala
- Created restful api endpoints in .net core and wrote vertica sql

### ProModel

Lead UI developer

December 2011 - May 2021

Ann Arbor, MI

- Architected the client and server using Angular 11, TypeScript, WebApi, .NET Core, and Oracle.
- Continuous build and integration utilizing angular cli, gulp, and TeamCity.
- Created a Gamification App using HTML 5 and CSS3 with D3, React and Node.js.
- Setup unit testing framework using Jest, E2E with Protractor
- Designed a Predictive Simulation Solution using Silverlight 5.0, RIA services and EF
- Developed a custom Timeline to allow the Army to visualize, process, and make better decisions
- Created RESTful endpoints and microservices using WebApi to provide JSON data
- Acquired Secret Clearance as this simulation project was funded and used by the Government

### BST Global

WPF / Silverlight Lead UI developer

April 2009 – December 2011

Tampa, FL

- Participated in multi-tier development effort worked as a WPF/Silverlight Lead
- Developed auto generated UI based on published models
- Worked directly with Business Analysts to develop Custom UIs
- Integrated with 3rd party controls, Telerik, Xceed, and Divelements
- Provided a blazing startup using BackgroundWorkers and a SplashScreen
- Hosted training sessions for junior developers on Silverlight and WPF

### TimeKeeping Systems Inc.

Senior Software Engineer

May 2007 – April 2009

Solon, OH

- Developed WPF & Silverlight 2.0 Main UI in a View Model Scheme under the 3.5 Framework
- OPC UA Client in C# 3.5 WPF, used commands to asynchronously retrieve domain objects
- Drag Drop Manager to customize and extend the UI
- Created Wizards, following the Aero guidelines, to configure a system
- Developed custom controls in WPF, for 3D objects, Hiding, and Windows Management
- Created Client side Report Viewer to unify the printing mechanics
- WPF TrayIcon that communicates via WCF to display the overall state of the System
- Used WPF, C#, Team Server, Reporting Services, email to automate the build process

#### **ABB Automation**

February 2005 - May 2007

Software Engineer

Wickliffe, OH

- Performed builds using Microsoft, Installshield, and Aspect Studio
- Created an Install using Installshield 11.5 for Client Licensing (CLS)
- Wrote Code in C# .Net and C++ for PC, Network Monitoring (PNSM)
- Designed OPC Server code for interaction with Client WMI Scripts
- Diagnosed and fixed handle and memory leaks, and performance bottlenecks

#### **IBM Corporation**

August 2002 - January 2003, January 2001 - August 2001

Software Engineer/Co-op

Rochester, MN

- Developed Java applications to analyze WebSphere with DB2, Oracle, Sybase, and Informix
- Wrote and designed Container Managed Persistence over Anything (CMP/A) in Java
- Deployed automated test platform to download, install, and execute regression tests

#### **Industrial Engineering Technologies**

May 1999 to August 1999

Industrial Engineer

Toledo, OH

- Created an online database, established on-the-fly graphics, and server access
- Renewed existing web page, assigned realism using GIFs, and developed employee security
- Trained in various time study ideas, prepared and delivered reports

#### **Commercial Comfort Systems**

May 1998 to August 1998

Computer Technician

Grand Rapids, OH

- Engineered total project cost database with security access using C++
- Assisted in maintaining/updating company web page
- Modified AutoCAD layout for HVAC system installation

## **SURFACE**

#### **Dr Pickles**

February 2013

- Developed with Xaml and C# in the 4.5 Framework
- Created a Xaml WinRT app to run on Surface, available in the Windows 8 App Store
- Three modes of play: single player, two player over wifi using a wcf duplex connection, and cpu
- Designed with Visual Studio 2012, Microsoft Expression Blend and Adobe Photoshop

## **SILVERLIGHT**

**Andy's Fine Woodworking** Santa Cruz, CA

June 2009

- Developed with Silverlight 3.0 and C# in the 3.5 Framework
- Worked directly with the Client to create pictures, layout, and theme
- Used the View Model Pattern to provide a seamless user experience
- Interactive PhotoAlbum to display Client's portfolio
- Designed with Microsoft Expression Blend and Adobe Photoshop
- Directly linked contact page to email account using SMTP

#### **NCAA Basketball Tournament Challenge** Cleveland, OH

March 2009

- Developed with Silverlight 3.0 and C# in the 3.5 Framework
- Bracket of NCAA tournament is displayed using the Deep Zoom technology
- Demonstrated use of AJAX, JavaScript, and ASP .NET 2.0
- Shared queries, table design all in SQL 2005
- SOE, Google Search and High Performance counters for Optimization
- Art designed in Adobe Photoshop to satisfy the Visual Experience
- Login, Email recovery using SMTP, and site security.

## PROJECTS

#### **Missile Wars**

August 2004 to December 2004

Senior Design Project

Programmed a C# and .NET application giving single or multiplayer for the PDA or PC

#### **Genetic Research**

May 2004 to August 2004

University Medical Center

Toledo, OH

Provided custom PHP/MySQL Mouse Colony Database for Gene Tracking

#### **Artificial Intelligence**

August 2003 to December 2003

Designed an Artificial Neural Network to pattern attributes of Breast Cancer

**3d Basketball Game** character modeling C++, OpenGL, and 3d Max

**3d Room** C++, OpenGL, Milkshape 3d, and Photoshop

**Tetris Program** C++, OpenGL, and Photoshop

## COMPUTER SKILLS

**Languages:** Typescript, Javascript, Xaml, HTML 5, CSS3, C, C++, C#, .NET 4.0, 5.0, WPF, SilverLight, Java, Flash, XML, PHP, and SharePoint

**Databases:** SQL 2008 R2, Informix, MySQL, DB2, Oracle, Sybase, and Access

**Software Packages:** Expression Blend, Photoshop, AutoCAD, OpenGL, Matlab, Milkshape 3d, and WebSphere

**Operating Systems:** Mac OS X, UNIX, AIX, HP, Windows, and DOS

**Mobile:** Windows App Store, WinRT, Surface, Windows Phone

**Javascript:** Angular 11, Typescript, Babel, Webpack, Gulp, D3.js, AngularJS, Backbone.js, Handlebars.js, jQuery, ExtJs, Dojo, script.aculo.us, JavaScript Toolkits, ember, Node.js, knockout, three.js, WebGL