

C O R E Y A L I X

SENIOR SOFTWARE ENGINEER

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<https://ca0v.us/about>

CAREER OBJECTIVE

To work with reactive frameworks and modern web technologies to build applications that are easy to use and maintain.

EDUCATION

Carnegie Mellon University

B.S. Mathematics and Computer Science

B.S. Computer Engineering

WORK EXPERIENCE

Infor Global Solutions - Public Sector

2011 - 2022

Senior Software Engineer

- Created the geospatial elements of *Infor Public Sector* using ESRI and open source components.
- Created the map components that integrate *Infor Public Sector* products with geospatial services using “*ESRI JSAPI*” and “*OpenLayers*” libraries
- Created the accompanying backend web services
- Contributed to the creation of a bi-directional ETL between our EAM and GIS systems

Infor Global Solutions - .NET Developer

2007 - 2011

Senior Software Engineer

C#.NET Developer

Infor acquired Hansen and there was an opening for a .NET developer with GIS experience. Replaced a 5K line proprietary map engine with both *ArcGIS Javascript API* and *OpenLayers* (configurable).

Maintained integrations with Bentley, MapInfo, ESRI, AutoDesk, and GeoMedia. Replaced Bentley, MapInfo, AutoDesk, GeoMedia adaptors with a OGC WMS/WFS compatible adaptors, allowing us to support for GeoServer and MapServer.

Datastream - Web Developer

1999 - 2007

Software Engineer

Java Developer

Briefly and intermittently worked on *Shotgun*, now *HxGN EAM*. Preferring Visual Studio over Eclipse, I maintained three VB.NET utilities we offered our customers.

The "Upload Utility", an "MS Project" utility, and an "ESRI ArcGIS Desktop" integration.

Was my introduction to GIS, returned to *Shotgun* to maintain the ArcGIS Javascript API map.

Building SPA's since 2002

Hired to develop *MP7* (Delphi), moved to *iProcure* (VB+Web), build "Admin" module. Leveraged ActiveXObject to make synchronous calls to the server without leaving the page (SPA). Used XML as protocol format. This approach facilitated faster data entry times, which was the primary use of these "admin" screens (create users, addresses, credit cards, etc.). One customer took the time to share her success with the data-entry process. Rapid data entry is a top priority of mine.

Bumwraps (VT)

1993-1999

General Manager

- Built accounting platform (General Ledger, Check Register, Accounts Payable, Accounts Receivable, Order Entry, Inventory, Payroll)
- Built CtPos (point-of-sale) app for two retail sites
- Built embroidery CAD apps for digitizing and namedrops
- Leveraged these apps to manage \$5M business
- Taught computer science at *United Christian Academy* (Newport, VT), coached soccer

SKILL BUILDERS

Curriculum Vitae

January 2023

This “CV” is responsive, has specific styling for printer, light, dark modes.

Print Server

January 2023

Family has been struggling with printing from phone so I build a solution that allows them to upload PDF's that then get downloaded to our printer.

Collage Editor

December 2022

Built “*just.be.collage*” to document Cool Bus 2022 road trip

Gym Gains

May 2022

Built “*Meathead*” to track my gym gains.

Headache Game

March 2022

Built “*Headache*” with my younger son, who loves playing Cuphead and wanted to make a copy for himself. We cloned the game controller behavior and the spirit of the game.

Invoice Builder

December 2021

Built “*Little Light Show*” to give my oldest son a professional appearance as he started his new Christmas light installation business.

OTHER INTERESTS

mountain biking and skiing, hiking and road biking, soccer, climbing, yoga, ultimate frisbee, making games, writing code

SKILL SUMMARY

- **Programming Languages:** C#, Python, Javascript, Typescript, HTML, CSS, SQL, Go, Java, Delphi, VB.NET, Assembly, C, C++, Pascal, Lisp, Prolog, Scheme, Rust, F#, Paradox Bash, Powershell
- **Frameworks & APIs:** dotnet 7, Node, Svelte, Vue, Angular, React, ArcGIS JSAPI, OpenLayers, Leaflet, Mapbox, D3.js, Three.js
- **Platforms:** Netlify, FaunaDB, Digital Ocean, ArcGIS Enterprise, MapServer, GeoServer, Tauri, Roslyn, CodeDom, EF Core
- **Tools:** Copilot, Polypane, Postman, VSCode, Visual Studio, PicoCSS, dotnet, git, gh, github, npm, pip, iis, nginx