

Overview

Team-oriented professional focused on creating high-quality, maintainable, testable and user-friendly software. Passionate about working smarter by pragmatically improving day-to-day processes. I firmly believe that software systems should make our lives easier and that onus falls squarely on the developer.

Employment

Garmin, International, Cary, North Carolina

Senior Software Engineer (hybrid)

May 2022 to Present

- Began journey into Site Reliability Engineering role by learning a host of new technologies and systems including PowerShell, OpenStack, Chocolatey and Cloudflare Wrangler and gain deeper knowledge of previously experienced technologies including Azure, AWS, Octopus and TeamCity; each day brings a new challenge and new technologies with automation first and foremost
- Move and secure AWS RDS instances from one AWS account to another for cost avoidance
- Achieve Azure security compliance by creating access restrictions using Azure PowerShell and Azure CLI
- Write Cloudflare workers using Wrangler to send requests to Azure and our backup AWS instance
- Create and maintain Azure Virtual Machines to host Octopus workers and OpenStack to host TeamCity Agents for our CI/CD pipeline using PowerShell and Chocolatey
- Automate Slack topics for our on-call teams leveraging Azure Functions to query PagerDuty REST API to get scheduled assignments and Slack REST API to manage channel topics
- Maintain and enhance InReach Explore platform web applications using ASP MVC, Web API, React, JQuery, Knockout, Azure Service Fabric, Identity Server, Entity Framework and SQL Server

FM:Systems, Raleigh, North Carolina

Senior Software Engineer (100% Remote due to COVID)

February 2021 to May 2022

- Lead a multinational team of developers and quality assurance engineers in building our multi-tenant authentication and authorization system which extends Identity Server
- Lead a multinational team of developers and quality assurance engineers in building a Design System based on Bootstrap using SASS, React and applied to our main legacy product in a piecemeal approach

Software Engineer (40% Remote pre-COVID)

May 2019 to February 2021

- Contributed to architecture and design of REST API for data visualizations using DDD/CQRS
- Helped shape the coding standards and agile philosophies of getting our work done
- Contributed to implementing coding best practices, NuGet packages for consistency across many repositories and consistency in build processes across all projects

The Select Group | CoPower (LISI, Inc), San Mateo, California / Durham, North Carolina

Software Engineer (100% Remote)

April 2018 to April 2019

- Created several highly flexible, modular web services using C#, .NET Core, EF Core, SQL, and WebAPI, incrementally replacing functionality of a very large legacy Windows application
- Configured a Continuous Delivery pipeline with Git, Jenkins and Octopus, targeting multiple environments with projects varying from WinForms apps targeting .NET Framework 4.6.1 to ASP.NET Core MVC apps
- Refactored a complex project with 20 interdependent projects into more modular projects by identifying common projects resulting in project with fewer interdependencies and several custom NuGet packages

Wells Fargo, Charlotte, North Carolina

Web Developer 4 (100% Remote)

May 2016 to April 2018

- Dissected several monolithic VB.NET libraries into smaller, more testable and more flexible C# modules. Incrementally and methodically replaced old code with more testable, robust code
- Architected a custom module system that allowed recurring approvals, satisfying audit requirements

Old Dominion Freight Line (ODFL), Thomasville, North Carolina

IT Programmer/Analyst (80% Remote)

July 2014 to May 2016

- Created an enterprise-level credit card processing SOAP web service using a Java EE6 stack with an Oracle data layer. Combined the two existing card processing systems of American Express and Elavon (VISA/MC) into one interface, thereby enhancing the usability of the service across all consumers of the service
- Developed front-end UI forms providing a consistent user experience

Penna Software, Latrobe, Pennsylvania

Web Developer (100% Remote part-time contract)

December 2014 to December 2015

- Built consistent UI pages in Knockout for a robust online event organizer
- Created a PDF reporting engine in C# for existing data
- Enhanced front-end input screens using Knockout for more consistent user experience

RF Micro Devices, Inc. (RFMD), Greensboro, North Carolina

Senior Systems Developer May 2012 to July 2014

- Designed and deployed a custom Change Order system using C# WebForms and Entity Framework
- Worked closely with Process Engineers to build and update custom C# WebForms line-of-business applications designed to make end users' daily work more streamlined,
- Newer features were backed by unit and integration tests using MSTest and QUnit for JavaScript

Process Engineer

January 2009 to May 2012

- Instrumental in designing a system-wide custom document control system on top of SharePoint
- Helped implement a custom C# WebForms Product Lifecycle Management tool, including user interface and SQL Server database using Entity Framework, while improving usability and consistent look and feel

Engineering Lab Manager March 1997 to January 2009

- Responsible for capital budgets of several design engineering groups
- Implemented several paradigm-shifting systems, saving millions of dollars in capital purchases

Rockwell Collins, Cedar Rapids, Iowa

RF Technician

May 1990 to March 1997

- Introduced to LabVIEW to other Rockwell employees through a local community college

Education

Guilford College, Greensboro, North Carolina

June 2007 to May 2012

Bachelor of Science in Computer Management of Information Technology, graduated with high honors

Coe College, Cedar Rapids, Iowa

August 1992 to May 1995

Concentration in math and physics

Indian Hills Community College, Ottumwa, Iowa

August 1988 to May 1990

Associate of Applied Science, Electronics and Telecommunications, graduated with honors