Elija Z. Hart

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Profile

Adaptable software engineer with over 20 years of experience finding creative solutions to difficult problems, especially given ambiguous or changing parameters. Skilled in quickly assimilating domain knowledge, learning new technologies, and writing clear, maintainable code. Able to dynamically balance short-term stakeholder concerns with long-term technical debt. Self-motivated and effective in a team environment. Excellent verbal and written communication skills. Deeply interested in the evolution and failure modes of complex systems.

Current Skills

C#, .NET, Android, iOS, UWP, ASP.NET, SQL Server, git, HTML/CSS, Automated Testing

Dusty Skills

C, C++, Java, JavaScript, Mercurial, Silverlight, WPF, MySQL, NServiceBus, Azure Service Bus, Stripe integration, Entity Framework, scripting (PowerShell and Bash)

Education

B.S. Computer Science from Rose-Hulman Institute of Technology

Work Experience Highlights

Senior Software Engineer • Microsoft, remote • 7/2016 – 1/2024

- Maintained the Xamarin.Forms cross-platform mobile SDK
- Designed and implemented multiple major features for the Xamarin.Forms SDK
- Key contributor to the design and implementation of the .NET MAUI architecture; redesigned and rewrote the Xamarin.Forms layout code for .NET MAUI, with a focus on performance and maintainability
- Wrote a Roslyn analyzer to automate porting of inline code documentation

Software Engineer • Xamarin, remote • 10/2015 - 7/2016

- Maintained the Xamarin.Forms cross-platform mobile SDK
- Significantly improved the turnaround time of the Xamarin.Forms continuous integration and automated testing process

Owner/Programmer • CodeWise LLC, Colorado • 8/2011 - 9/2015

- Contracted as a full-stack developer for a telematics firm, including database design and administration, web application design and implementation, and scalable message-processing service development
- Developed custom software, including an iPad sketching application, a guided meditation application, and a Google Reader clone
- Performed source code review for architecture quality, maintainability, and security vulnerabilities

Software Architect • Amadeus Consulting, Colorado • 6/2001 - 4/2011

- Designed and implemented a C library to interface with multiple Brooktrout phone and fax boards, track line status, play emergency messages to call recipients (using text-to-speech), and report call results
- Implemented .NET Windows service to communicate between an emergency alert system and NTCIP devices (primarily highway sign boards)
- Designed and implemented a WPF application to interact with ozone detection hardware to record and graph data