Resume of Kari K. Hoijarvi

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Updated Apr/9/2022

Profile

I have 34 years of MS developing experience, since 2001 I have used Classic ASP, ASP.NET, ASP.NET MVC, C#, JavaScript. I'm also familiar with a lot of MS legacy technologies and Linux.

Experience

Hunter Engineering Bridgeton, MO Dec/2019 - Present

R&D Engineer

Tools and Platforms

C#, ASP.NET+MVC, JavaScript, Azure

Responsibilities

- Full stack web development
- Data mining

Ansira Saint Louis, MO 2014 - 2019

Software Developer

Tools and Platforms

C#, ASP.NET+MVC, JavaScript, HTML, CSS, jQuery, SQL Server

Responsibilities

- Programming a large SQL database with raw SQL and MS Entity Framework.
- ETL: Extract - Transform - Load code to import customer files.
- Data and processing services to provide the application foundation.
- Middleware modules for various requirements: customizing, mailing lists, ordering, billing etc. whatever data processing is needed.
- User interface: UI modules with HTML, CSS, JavaScript and AJAX.

DataFed Saint Louis, MO 1992 - 1995, 2001 - 2014

Sr. Computer Specialist

I was the sole developer and administrator for the DataFed system: Data collecting, cataloging, serving, processing, visualizing etc. My early 90's work was similar; from that era my visualization crown jewel got widely published like in National Geographic, October 2000, PBS NOVA Global Weather Machine (scroll down), books like Earth: A Journey Through Time by Nicolas Cheetham, blogs like scientificearthconscientious6.wordpress.com and many more.

Tools and Platforms

C#, F#, C++, Python, ASP.NET, JavaScript, HTML, CSS, jQuery, SQL Server, PostgreSQL, SQLite, XML, IIS, Web Services, Windows and Linux

Responsibilities

- Implement Standard OpenGeoSpatial Web Services for distributed data delivery.
- Writing batch programs to harvest data from external sources, like NASA, NOAA and EPA.
- Implement web front ends to find, browse, process and animate data.
- Support formats for 3rd party tools like MS Excel and Google Earth.
- Listen to research scientists and help them to get their papers done.

[Vaisala](#) Helsinki, Finland 1998 - 2001

Senior Software Engineer

I participated in further development of the [Midas IV (PDF)](#) airport weather system, and I was the lead developer for [MetMan (PDF)](#) large area data collection system.

Tools and Platforms

C++, Visual Basic 6, COM, TCP-IP, Oracle, Access, XML, MSMQ, Windows

Responsibilities

- Review existing mission-critical code.
- Architect and implement the MetMan core system.
- Implement the core of the system with C++ and COM.
- Implement COM Components for Visual Basic to create real-time data displays.
- Tutor other developers to program the system.

[Microsoft](#) Redmond, WA 1995 - 1998

Software Design Engineer

I worked for Outlook 97, 98, Outlook Mac Client and Exchange. The team sizes varied between 4 and 30.

Tools and Platforms

C, C++, MAPI, Windows, Mac

Responsibilities

- Implement the item transfer: the copy/cut+paste.
- Implement undo command for item editing and transfer.
- Improve performance by moving slow running operations to background threads.
- Explore the possibility of using Outlook as a Web Server.
- Implement Outlook features to the Mac client.
- Improve the OLE automation interface.

Nokia Research Center, Helsinki, Finland 1988 - 1992

Software Design Engineer

I was a core member of the Visual Planner team. It was a project management tool and its descendant is currently sold by [PlanMill](#).

[Northern Research and Engineering Corp.](#) Woburn, MA 1986 - 1987

Intern

This was my [thesis work](#), I made the first version of the CAE system [MAX-AB](#) which still is in production use.

Education

[Lappeenranta University of Technology](#), Department of Power Engineering, Finland, Diploma Engineer, 1988

Thesis

[Computer Aided Machining of Turbomachine Blades](#)

Publications

- [Presentation: Array Algorithms in J (Youtube), Sep 2014](#)
- Husar, R.B., Hoijarvi, K., Falke, S.R., Robinson, E.M., Percivall, G.S., DataFed: An Architecture for Federating Atmospheric Data for GEOSS, IEEE Systems Journal, 2, 366-373, 2008.
- Husar, R.B., Falke, S.R. Hoijarvi, K., Data Flow & Interoperability in DataFed Service-based AQ Analysis System: ESIP Federation Winter Air Quality Cluster Technology Track Meeting (2007).
- Husar, R.B,. Falke, S.R and Hoijarvi, K, Interoperability of Web Service-Based Data Access and Processing: Experience Using the DataFed System, presented at ESTO meeting, U of Maryland, MD, June 28, 2006.
- Husar, R.B., K. Hoijarvi, J. Colson, Access, Homogenization and Exploration of Heterogeneous Data Distributed over the Web, CAPITA Publication 06-08 (2002).
- Husar, R.B., K. Hoijarvi, J. Colson, and S. Falke. Design of the Voyager Services and Browsing System. Voyager Browser, CAPITA Publication 02-12 (2002).
- I gave a talk at [FINAPL 2001](#), and wrote a summary article to Vector: [Microsoft's Q&A Process](#).
- Kari Höijärvi, Diploma Thesis: [Computer Aided Machining of Turbomachine Blades](#), Lappeenranta University of Technology, UDK: 681.3:681.323:62-135 (1988).

References

The contact information is removed for privacy reasons. Please contact me if needed.

- Ansira: Francis Engbert.
- DataFed: Prof. Rudolf B. Husar; Erin Robinson, Information and Virtual Community Director.
- Vaisala: Ari Meskanen, Chief Technology Officer; Hannu Heikkinen, Senior Software Developer.
- Microsoft: Matt Hillman, Team Lead.
- Nokia Research Center: Christer.Nordlund, Software Engineer.
- Northern Research and Engineering Corp: Alan R. Levine, Project Manager.