

DAVID W. GRAY

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SKILLS PROFILE

- C#/.Net, C/C++, JavaScript, TypeScript, Vue.js, MySQL, T-SQL, Azure Cognitive Search
- Full Stack Web, Desktop Application, Diagnostic Tools
- Leadership experience using both Agile and Waterfall methodologies
- Mentor and coach

EMPLOYMENT HISTORY

Software Engineering Manager, Clean Power Research

2017 — Present

Kirkland, WA

- Managed a team of engineers who develop a family of products including consumer facing solar, storage and electric vehicle calculators, a B2B API for utility bill calculations, and a utility scale ML based prediction engine for distributed energy resource adoption. These are SaaS products that are developed using Microsoft technologies with a Vue.js/TypeScript front end running in the AWS cloud.
- Rebuilt a team and a code base that had been oriented towards small contract-based projects by introducing engineering practices that moved towards a more stable and manageable team and system. This included introducing SCRUM practices, design and code review processes and several levels of automated testing. Average feature completion time went from being measured in months to weeks.
- Implemented SOC2 controls, including passing all four annual audits without exceptions. Collaborated with external penetration testers to secure the products.
- Established a quarterly "Management Book Club" and built communications between managers to establish management practices and train new managers.

Founder, music4dance.net

2014 — Present

Seattle, WA

Built a ratings and referral website that helps dancers find music that inspires them to dance. This is a Web application written in asp.net core with a Vue.js front end, running in the Azure cloud and built around Azure Cognitive search.

Principal Lead Software Engineer, Microsoft

2003-2012

Redmond, WA

- Engineering lead for the Visual Studio Debugger, Profiler, and IntelliTrace. Drove best of class diagnostics tools through multiple product cycles. Attacked many of the hardest problems developers face including reducing the "not reproducible" problem and diagnosing issues in the cloud, desktop and devices.
- Collaborated with cross-functional teams across Microsoft including Visual Studio, C#, VB, C++, .net, SharePoint and Windows to enable features that were business critical to those teams and to enable the tools that my team owned to work effectively with those platforms and languages.
- Worked with management and the team to transition to a SCRUM process.

President, theGray.com

1999 — 2003

Seattle, WA

General software consulting including technical feasibility analysis for venture capitalists, website design and deployment, custom office automation and billing software for a clinic, web-based survey, and data cleaning.

Vice President of Technology, Sunhawk.com

1996 — 1998

Seattle, WA

Managed a cross-functional team of Software Engineers, Graphics Artists and Music Librarians to build an e-commerce solution for browsing and purchasing sheet music over the internet. This included a web-site engine that both compiled static pages served by a Linux server and an IIS plugin to dynamically serve pages based on a custom music database as well as a system to download encrypted sheet music and purchase the encryption key by processing credit card transactions.

Lead Software Engineer, Microsoft

1995 — 1996

Redmond, WA

Led a team that translated some of the most compelling ideas from Visual Basic Enterprise Edition including database management and component wizards into the first Enterprise Edition of Visual C++.

Senior Software Engineer, Microsoft

1989 — 1995

Redmond, WA

Designed and implemented the core debugger to enable it to target multiple operating systems running different microprocessors, locally and remotely while hosted in different development environments.

EDUCATION

- B.S. Applied Mathematics and Computer Science, Carnegie Mellon University, Pittsburgh
- User Experience and Design Certificate, General Assembly, Seattle

TEACHING/VOLUNTEERING

- Instructor, Discrete Math and Data Structures, Northeastern University, Seattle
- Volunteer Teacher, Introduction to Computer Science, Truman High School, Federal Way
- Instructor, Introduction to Programming Workshop, General Assembly, Seattle, Washington
- Mentor, Computer science students in non-traditional colleges, MinT