Dave White

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Summary

I am a full-stack Software Engineer and Network Engineer with broad experience at nonprofits and small firms, looking to move up to a more specialized software development role at a medium sized or larger firm.

Technical Skills

Software Engineering and Design

- **17+ years total FTE programming experience:** I've been programming since 1987, mixed with networking, IT management, desktop support and occasionally building construction and teaching
- **8+ years' experience:** REST API's, web services, JavaScript, HTML/CSS, SQL (especially MS SQL Server, MySQL, SQLite, offline database synchronization), HTTP and TCP/IP network programming
- **4+ years' experience:** JSON, ASP.NET, C#, WPF, PWA's, PHP, C/C++, Entity Framework, jQuery
- **2+ years' experience:** Assembly, Win32 API, VBA, Access, Visual Basic / VB.NET
- **Some familiarity with:** React, Docker, XML API's, SOAP, Java, Python, NPM, Webpack, Angular, Perl
- **Full stack experience includes** all tiers and the full life cycle from requirements gathering to release
- **Strong design experience** working with non-IT users to develop applications that meet business needs
- **I use** Git, Jira, modular web services, and modern maintainable design patterns including SOLID, MVC, Agile-inspired teamwork around requirements gathering, etc.
- **Software task domains** include building inspections, accounting and client recordkeeping for nonprofits, processing government grants, payroll, educational games and activities, printing and bindery services, etc.

Networking, DevOps & IT Support

- TCP/IP, Windows Server, Exchange Server, VMWare, Office 365, SQL Server, Remote Desktop / Citrix, Cisco routers, Linux and Windows scripting, hardware purchase and repair, desktop support
- Experience includes supervising company-wide upgrades, migrations and mergers, budgeting and hiring
- Knowledge of containerization, Docker, AWS and cloud services

Teaching and Mentoring

- Experience mentoring, hiring, and supervising IT staff and contractors, and providing training for users
- 4 years' experience in public school education

Work History

- **IT Engineer**, Institute for Environmental Assessment (IEA), 2018-present
    - I converted an ASP.NET / C# / WPF Windows app into a modern cross-platform Progressive Web App for mobile and desktop (in C#, JavaScript and ASP.NET MVC, with a SQL Server backend).
    - Most recently, I added advanced graphical capabilities where users can scan a building plan from PDF or AutoCAD and have it automatically recognize the rooms and link them to data about each room's inspection status. This replaces tables of numbers with easy-to-understand graphics.
    - I worked closely with end-users to add modular components to this app meeting department needs.
    - I formalized the development process, using Git and Jira, and made the legacy code more modular and expandable using SOLID principles and dependency injection
    - I am the sole IT employee, performing most helpdesk, network admin, and hardware tasks as well as the development tasks.

- **Technical Study**, summer 2018
  - I took some time in 2018 to learn more up-to-date technologies and review existing skills before re-entering the software development job market. Skills included React.js, Docker, AWS, Python, Typescript, using Webpack and Node.js, Angular, and native Android development using Java.

- **Teacher,** Minneapolis/St. Paul Area Independent Public-School Districts (ISD's)**, 2013-2018
  - I explored education for several years, but have decided to return to software development.
  - [I used **software I developed**](#) to individualize student learning using tablets. I used HTML5, PHP, CSS, and other Web technologies, as well as Google Apps and server-side JavaScript.
  - I taught the curriculum of grades K-5 and met learning targets and goals for my students.
  - Details of employment: 2/2013-6/2013: Student Teaching at Barton Open in Minneapolis; 9/2013-6/2014: Minneapolis Substitute Teacher; 9/2014-6/2015: Associate Educator at Barton Open; 9/2015-6/2017, Reading Teacher at ISD 286 in Brooklyn Center; 9/2017-2/2018, Kindergarten Teacher at ISD 622 in Maplewood.

- **Information & Evaluation Coordinator / Programmer,** Hearth Connection**, 2008-2013
  - Hearth Connection manages public grants for homeless services across Minnesota.
  - I developed reporting software (full-stack) in PHP, JavaScript, HTML/CSS, and SQL.
  - I maintained and developed [accounting](#) and [outcome reporting software](#).
  - I analyzed business needs and developed requirements for my own projects as well as for a Java subcontractor, based on input from accounting and grant management employees.
  - I developed documentation, entity-relationship diagrams, etc., for all agency databases, and provided training for software users as well as another developer.

- **IT Manager / Programmer / Analyst,** Tubman Family Alliance, 1998-2006 and 2007-2008
  - *2007-2008: Temporary Project Manager*
    - Tubman is a large domestic violence service agency.
    - I merged the agency phone and computer network with another agency's (6 sites/200 seats).
    - Tasks included budgeting, purchasing, overseeing telephony and network subcontractors, scripting and performing upgrades, and installing new WAN links using Cisco routers.
  - *1998-2006: Information Technology Manager*
    - I designed and developed software, mostly involving relational databases, in Visual Basic for Applications, Microsoft Access, SQL Server, ASP, PHP, VBScript, JavaScript. DHTML, etc. Software development met agency needs in departments such as direct provision of social services, outcome and benchmark measurement, research and evaluation, payroll, development/fundraising, inventory, building maintenance, etc.
    - I was department manager, senior help desk staffer, programmer/analyst, and network administrator, as well as supervising and mentoring 1 FTE who did training and coding.

- **Previous Positions**, 1987 – 1998
  - Spent four years outside of IT building houses for Habitat for Humanity (and even then, I ended up programming inventory systems and databases for them as well)
  - Developed C and Visual Basic applications for Berman Press & Bindery
  - Developed Basic and other applications for Tuition Aid Data Services
  - Started out as a high school student with a small business building and selling word processing software for an 8-bit home computer, written in Z-80 Assembler and C

Education

- **Masters of Elementary Education,** University of St. Thomas; Minneapolis, MN
- **B.A.** *cum laude,* **Macalester College,** Urban Studies & Geography; St. Paul, MN