

# Dave White

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**Portfolio:** <https://www.davewhitesoftware.com>  
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## Summary

I have skills in a broad range of IT and Software Development areas, as well as education and training skills.

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## Technical Skills

### Programming & Software Design

- 15+ years' experience
- **Extensive experience in:** [JavaScript](#), HTML/CSS, [AJAX and HTML5](#) techniques, [PHP](#), [SQL](#) (especially SQL Server, MySQL, SQLite), [C and C++](#), Classic ASP, VBA/Visual Basic/VBScript, TCP/IP
- **Familiar with:** [Java](#); [Python](#); [React](#); [C#.NET](#); [Git](#); NPM; Webpack; some exposure to Angular and Perl; Docker; assembly; Win32 API; jQuery
- **Experience includes** design, gathering user requirements, creating specifications, coding, testing, roll-out, and training
- **Software task domains** include [accounting and client recordkeeping for nonprofits](#), processing government grants, payroll, [educational games and activities](#), printing and bindery services, and others

### Mentoring & Teaching Skills

- Experience mentoring, hiring and supervising adult programmers and subcontractors
- 4 years' experience in public school education

### Networking & IT Support

- 10+ years' experience
- TCP/IP, Windows Server, Exchange Server, SQL Server, Citrix / Thin Client installations, Novell
- Some Cisco router and Linux experience
- Experience includes supervising company upgrades, migrations, and mergers; budgeting; hiring; maintaining server rooms and premise wiring
- 5 years' experience with PBX and VoIP telephony
- 8 years' experience providing helpdesk support for Office, Windows, Citrix remote access, hardware, printers, etc.

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## Work History

- **Technical Study**, summer 2018
  - Since I have savings, I took some time this year to learn more up-to-date technologies and review existing skills before re-entering the software development job market.
  - New skills include React.js, containerization using Docker, AWS, Python, Typescript, using Webpack and Node.js, some exposure to Angular, and native Android development using Java.
  - Code examples for some of these are available on [my portfolio](#) and [GitHub](#).
- **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 maintained and developed [accounting](#) and [outcome reporting software](#).
  - I developed reporting software (full-stack) in PHP, JavaScript, HTML/CSS, and SQL.
  - 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.
- **Programmer / Designer, NoTo37 Project (PT/Volunteer), 2010-2011**
  - I developed a [custom political organizing application](#) that enabled parents to send customized letters to local and state leaders about school funding, and allowed project leaders to track outreach geographically.
  - I used Google Maps, HTML5/JavaScript, in-depth research of bulk email, and a MySQL database.
- **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).
    - I saved \$12,000 through creative use of thin-client technology and donations.
    - 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 simultaneously functioned as department manager, senior helpdesk staffer, programmer/analyst, and network administrator, as well as supervising staff computer training and managing the telephone system.
    - I hired and supervised one FTE position as well as subcontractors; I prepared departmental budgets and long-range plans. I supervised major upgrades and migrations including Novell-to-Windows, VoIP phones, new Cisco WAN links, and database/server upgrades.
    - I saved \$37,000 on a \$100,000 upgrade by recommending Citrix Thin Client, and \$20-\$30,000 by developing a database in-house.
    - 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 performed daily network administration and helpdesk activities, and supervised and trained staff who performed these duties, such as user adds/deletes, Office helpdesk questions, software installation, imaging workstations, backup procedures, etc.
- **AmeriCorps Volunteer / Materials Coordinator, Habitat for Humanity, 1993-1997**
  - I built affordable housing and fundraised \$100,000 worth of in-kind materials donations.
  - I trained and supervised volunteer construction crews and supervised a house rehab.
  - I developed databases in Access and dBase, did IT technical support and purchased IT equipment.
- **Programmer, Alan Berman Software (PT), 1992-1995**
  - I wrote relational database software for large printing corporations in C and Visual Basic.
  - I ported the company's main product to Windows and created intuitive user interfaces.
- **Programmer, Tuition Aid Data Services (PT), 1989-1991 (part-time)**
  - I wrote data processing software, repaired computers, and other related IT tasks.
- **Self-Employed Programmer, 1987-1990**
  - I developed and sold software written in Z-80 Assembler and C, relating to word processing, developer tools and data transfer.

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## Education

- **Masters of Elementary Education, University of St. Thomas; Minneapolis, MN; 2010 – 2013.**
- **B.A. cum laude, Macalester College, Urban Studies & Geography; St. Paul, MN; 1989 – 1993.**