

Dave Bradlee Software, LLC  
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<http://davebradlee.com>

# Dave Bradlee

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**Objective** Software consulting, particularly development of web, data visualization and/or map applications, especially for non-partisan and progressive social and political organizations and companies.

**Technical Skills and Strengths**

Excellent problem solving and algorithm development.  
Excellent ability to create performant, virtually bug-free software.  
Strong ability to build rich user experiences in Silverlight.  
Strong ability to learn new technologies.  
Extensive experience with C++, C#, Silverlight, .NET Framework and compiler technology.  
Experience with Bing map technology, Java, JavaME, Javascript, Perl, Web services, REST, JSON, HTML, XML, natural language technology, Visual Basic, MS Office macros.

**Work experience**

**2009 - present Dave Bradlee Software, LLC Seattle, WA**

**Dave's Redistricting Application, Dec 2008 – present**

- Developed the only [web application](#) that allows anyone to draw congressional, legislative and county council districts for 49 states.
- Application features:
  - Intuitive user interface.
  - Many options to show/hide map features and visualize data.
  - Allows user to click and sweep across the map to “color” districts.
  - Automatically shows demographic and election data as district is drawn.
  - Can input from and output to spreadsheet form (CSV).
  - Uses 2010 census data and has election data for 22 states.
  - Uses Silverlight framework with Bing map; runs on Windows and Mac.
- Used by bloggers, legislators, congresspersons, non-profits and news organizations.
- Has been used to submit redistricting legislation and has been [in the news](#).

**Strategic Districts, Mar 2011 – Jun 2011**

- Developed client side of redistricting application that allows extensive parameterization of desired outcomes. Uses Silverlight framework with Bing map.

**Wellzio, Inc., May 2009 – Dec 2010**

- Developed phone application prototype for disease management system in JavaME.
- Developed web services layer in Java for phone application to communicate with disease management business logic and database.
- Enhanced and developed specifications for disease management system.

**Sep - Nov 2008 Darcy Burner for Congress Bellevue, WA**

- Volunteered doing transcripts, Excel charts, newspaper research and phone calling.

**1991 - 2008 Microsoft Corporation Redmond, WA**

**Software Development Lead, Office Visio, Oct 2003 – Sep 2008**

- Led development team and wrote software for pivot diagram, validation and cross-functional flowchart features.

**Development Manager, Natural Language, Aug 2001 – Oct 2003**

- Handled significant reorg of group and division, rebuilt team morale, better fit group goals into division goals and leveraged group strengths.
- Balanced short term deliverables with investment in far reaching technology bets.

**Software Development Lead, Natural Language, Aug 1999 – Aug 2001**

- Successfully shipped grammar checkers for 4 languages in Office XP.
- Led major re-architecture of natural language engine to allow new NL features.

**Software Development Engineer, Natural Language, Feb 1999 – Aug 1999**

- Developed language independent tokenizer for English, French, Spanish and German.

**Software Development Lead, Visual Basic, Sep 1991 – Feb 1999**

- 1997-1998: Co-led complete VB compiler re-architecture; Led effort to target different virtual machine (first Java VM, then MS VM).
- 1991-1997: Led development team and wrote software for major portions of compiler and runtime for Visual Basic for Applications and Visual Basic 4 and 5.

**Software Development Engineer, Languages, 1986 - 1989 (part-time)**

- Developed code generator for Intel i860 chip and other portions of C compiler.

**1982 - 1985                      Boston Systems Office                      Waltham, MA**

**Software Engineer / Manager**

- Co-managed compiler group responsible for Pascal and C cross-compilers for the 68000, 6809, 386, and Z80 chips.
- Developed Z80 code generator and target independent optimizations.

**1978 - 1982                      Data General Corporation                      Westboro, MA**

**Software Engineer**

- Developed major components of Fortran 77 compiler. Developed Fortran 77 runtime. Maintained and enhanced Fortran 4 compiler.

**Education                      University of Washington, Seattle, WA**

*Ph.D. 1991, Computer Science. Retargetable Instruction Scheduling for Pipelined Processors.*

**Union College, Schenectady, NY**

*B.S. 1977, Mathematics and Computer Science, cum laude*

**Patents**

Mark Nelson, Mike Woolf, Heidi Munson, David Bradlee, Evan Moran. *Inferring diagram structure through implicit Shape relationships.* Filed March 2009.

Dennis M. Canady, Alan Carter, Ilan G. Caron, Mark L. Roberts, David G. Bradlee, Steven E. Lees. *Compiler and method for evaluation of foreign syntax expressions in source code.* Filed August 1994. Awarded April 1998.

Jeffrey C. Robbins, David G. Bradlee, Timothy L. Patterson. *Call template builder and method.* Filed April 1995. Awarded March 1998.

**Publications**

David G. Bradlee, Susan J. Eggers, and Robert R. Henry. *Integrating register allocation and instruction scheduling for RISCs.* International Conference on Architectural Support for Programming Languages and Operating Systems, April 1991.

David G. Bradlee, Susan J. Eggers, and Robert R. Henry. *The effect on RISC performance of register set size and structure versus code generation strategy.* International Symposium on Computer Architecture, May 1991.

David G. Bradlee, Robert R. Henry, and Susan J. Eggers. *The Marion system for retargetable instruction scheduling.* ACM SIGPLAN'91 Conference on Programming Language Design and Implementation, June 1991.