

DAVID O. HOVEL

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Software Designer and Architect

QUALIFICATIONS

- Professional software designer and implementer for leading software and computer companies with extensive experience in cutting-edge technologies.
- 11 years as developer with Microsoft in Windows NT and Microsoft Research.
- Solid technical expertise in Internet technologies, mathematical programming, database development, software componentization.
- Strong public speaker and university-level instructor; published writer.

INDUSTRY KNOWLEDGE

- Languages: C#/Mono, C++, Visual Basic, COM/ATL, ASP.NET, SQL, ASP, JavaScript, C, Pascal, PROLOG, others.
- Operating Systems: Windows XP/2000, Microsoft.Net, Linux.
- Implementation technologies: WWW-related (HTML, XSLT, XML, CSS), object-oriented programming and COM, relational databases, graphical frameworks, multithreading, interrupt- and event-driven processing, compilers, expert systems, neural networks.
- Solid experience in computer-based video, audio, music and graphics.

EMPLOYMENT

MICROSOFT CORPORATION, REDMOND, WA, 1990-2001

Software Designer, Decision Theory Group, Microsoft Research, 1994-2001

- Design and implement tools and methodologies for probabilistic reasoning and intelligent interfaces.
- Provide training and decision analysis tools to developers throughout Microsoft.
- Work with researchers on new techniques in probabilistic modeling and analysis.

Software Designer, Windows NT Network User Interface Group, 1990-1994

- Primary designer and implementer of network subsystem installation and configuration for Windows NT 3 and 3.5.
- Developed dynamic rule-based system guaranteeing correct network configurations; designed netcard hardware detection capability.
- Participated in development of C++ class library used for all Windows NT network user interface components; helped develop common installation scripting language.
- Responsible for maintenance and porting of 500K lines of C++ source base.

EMPLOYMENT (Cont.)

DATAPOINT CORPORATION, SAN ANTONIO, TX, 1977-1989

- Started in systems programming (1977-1982), promoted to Staff Systems Programmer (1982-1987) and then to Principal Architect (1987-1989) for this minicomputer vendor and pioneer in local area networking (ARCNET).
- Designed and lead development teams for local-area network file servers, redirectors and applications, as well as major user interface projects.
- Organized, trained and managed the PC LAN software development group.
- Initiated and guided development of extensive automated test facilities for client-server software.
- Taught numerous in-house and customer training courses for major clients including Citibank, the Bank of Brussels, etc.

EARLIER POSITIONS, EL PASO, TX

Worked as database administrator and applications suite designer and implementer.

PROFESSIONAL ACTIVITIES

Taught Intermediate C++ at the University of Washington Extension Service, 1994-95.

PUBLICATIONS

“ASP.NET and Page Persistence,” *Dr. Dobb’s Journal, December, 2002.*

“Using Prolog in Windows NT Network Configuration,” *Proceedings of the Practical Applications in Prolog ‘95 Conference.*

PATENTS

“Bootting a System Using a Last-Known-Good Set of Configuration Data,” 1993.

“Intelligent User Assistance Facility,” 1996.

“Automatic Bottleneck Detection by Means of Workload Performance Measurement,” 2000.

“Decision-Theoretic Principles and Policies for Notification,” 2000.

“Contextual Models and Methods for Inferring Attention and Location,” 2000.

“Collaborative Filtering Utilizing a Belief Network,” 1996

EDUCATION

B.S. degree in Physics and Math, University of Texas at El Paso.