

# DALE B. SCHALOW

## SUMMARY

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Mr. Schalow provides technology services including software integration and development for World Wide Web (WWW), Web services, and streaming media applications. Some of his clients have included the National Institutes of Health, U.S. National Library of Medicine, Lockheed Martin, David Bowie, and Xerox. Most of the work provided consists of research, design, development, implementation, and support. In particular, projects currently scoped and worked include NIH SeniorHealth streaming media for Web; NLM Reading Room patron service application with large display format (LDF) tablet-designed touch screen with connected XML parsing data service; Section 508 Plus "Talking Web" automated speech technology for senior, disabled, low vision, and impaired Web users; and DocLine conceptual review and analysis. In addition Mr. Schalow has also worked on numerous projects and applications in Natural Language Processing, Computational Linguistics, Automatic Speech Recognition and most recently Motion-Capture interface for Web. His first commercial product was Access Music Network (1992), a Telco/CATV/Cellular-based music-on-demand subscription service for the consumer marketplace.

Mr. Schalow uses Java integrated development environment (IDE), Java Development Kit (JDK), Java 2 Platform Enterprise Edition (J2EE), Java 2 Platform, Standard Edition (J2SE), Java 2 Platform, Micro Edition (J2ME), Visual Studio 6-.Net 2010, Apache, Oracle, UNIX, Microsoft (MS) Windows, and Apple computers and devices. He also provides internal prototype and demonstration presentations to senior-level managers and directors, external agencies, conferences, classes, and case studies.

## EXPERIENCE

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January 2002–Present Dale Schalow Software Engineering/AMN Corporation  
*CTO/Developer*

- Mr. Schalow's duties with Dale Schalow Software Engineering (DSSE) include managing the design and development of streaming media and Web services' technology for commercial, consumer, and Federal Government clients. His projects include the National Institutes of Health (NIH), National Library of Medicine (NLM), Office of Computing and Communications (OCCS); CIPS Corporation; Lockheed Martin; Management Systems Designers, Inc.; and AMN Corporation. Mr. Schalow's primary software development tools include Java 2 Platform, Enterprise Edition (J2EE); Java 2 Platform, Standard Edition (J2SE); and Java 2 Platform, Micro Edition (J2ME)); Visual C++, C#, Visual Basic.net; and programming for Microsoft Windows, UNIX, and Apple computers and devices. Both Adobe CS5 with Flash on touchable large format display (LFD) and iOS development with simple interface and audio design were used on mobile tablet screens. His Java-based Web services work includes Apache Tomcat, Java Development Kit (JDK) 1.1+, and JMF (Java Media Framework). In conjunction with NLM, Lockheed Martin, and DSSE, Mr. Schalow was able to help build a worldwide presence of Section 508 Accessibility and Talking Web for NIH Web sites and network applications. He was the lead developer for AMN Corporation's wireless media collaboration product "MovieBroker", which was nominated as PocketPC Magazine's Video Product of the Year 2002.

October 1997–January 2002 Integic Corporation  
*Senior Technical Director*

- At Integic, Mr. Schalow worked with customers to manage software programs and accounts to deliver multimedia solutions and workflow systems. He was the technical director for enterprise Java and Web-based realtime transport protocol (RTP) broadband and media streaming application systems used worldwide for the Federal Bureau of Investigation (FBI), Defense Intelligence Agency (DIA), Defense Logistics Agency (DLA), and FAI (Federal Acquisition Institute). He also worked as technical director and lead developer of several business and clinical projects including developing intelligent agent components for PPD Pharmaceuticals to link 16bit to 32bit applications using object sharing to

automatically correct batched images' orientation to right-side-up; developing and maintaining Chiron Pharmaceuticals' e-business-based Clinical Supplies Tracking System PBA (Product Based Application) for NT and UNIX multi-tier with a relational database management system (RDBMS) using advanced constraints architecture in Oracle 7.3/8.05; supplying Xerox United States and United Kingdom wide area network (WAN) and information systems (IS) management of Documetrix NT, Win32, and UNIX multi-tier workflow for 1,000+ PCs for customer business centers; developing Sony Music Web and e-business invoice management workflow including payables, receivables, and accounting logic for calculating royalties; and producing CRFs (Case Report Forms) Pharmaceutical Case Report and Document Management system that incorporated optical character recognition (OCR) and intelligent character recognition (ICR) data capture services for Windows 2000, NT, and 95 multi-tier including Microsoft Transaction Server (MTS) and native query brokerage services. Mr. Schalow was also a two-time award-winner of Integic's "Intelligent Agent Bounty Program" sponsored by the USI/Integic Product Strategy and Development Group based in Chantilly, Virginia.

July 1996–October 1997

Interactive Programming Services (IPS)

*Independent Developer*

- Mr. Schalow worked as an independent software developer with IPS where he worked with clients to program prototypes and to develop stand-alone and Web-based applications. Some of his customers included CKS Partners Group's NASDAQ News Room client/server streaming media Web service and VISA's Golden Bear on-line game development and advertising at Nicklaus.com, both built using Java, JavaScript, Perl, Shockwave, and hypertext markup language (HTML).
- Mr. Schalow also programmed a product-based multimedia communications program for Lucent Technologies that was later used at the InterOp information technology (IT) exhibition in Las Vegas, Nevada to demonstrate Lucent's NetCare application prototype. Other customer projects included Landmark and Kingdom Entertainment's Web media and music player application used for Internet and content management strategies between Michael Jackson, His Royal Highness Prince Alwaleed of Saudi Arabia, and Landmark Entertainment. In addition, Mr. Schalow developed and delivered PerformTech Corporation's Boeing 737 Fire Safety QTVR (Quicktime Virtual Reality) interface solution for the U.S. Air Force in Geneva, Switzerland.

August 1995–July 1996

Image Communications, Inc.

*Director, Software Development*

- While at Image, Mr. Schalow's duties included building and managing a development team and developing code. The software solutions he developed and the services he provided to Image included Bell Atlantic's Intranet Yellow Pages; IBM's CEOLink private subscription-based Web site for qualified CEOs written in Java and Shockwave; Glaxo-Wellcome's "MEDICINES—The Inside Story" a multimedia virtual museum that can use Windows or Mac; Software AG 3D motion-frames compression and programming written in Java; streaming media networked kiosks with built-in accessibility features for Pentagon renovation project that eventually became supported into new Section 508 legislation; and research and development (R&D) with AT&T using virtual remodeling language (VRML) to develop the user interface design for virtual reality headsets that present three dimensional (3D) worlds.

December 1993–August 1995

Magnet Interactive, LLC

*Lead Programmer*

- The primary role of Mr. Schalow at Magnet was leading software development for commercial and consumer educational and entertainment software. His accomplishments at Magnet included applications, integrated audio and media assets developed for American Express, Wyatt Advertising Group, Discovery Channel and award-winning "COMEDIANS: Behind the Laughter" consumer title CD-ROM from 20<sup>th</sup> Century Fox. The 3D animated product received 4 out of 5 five stars from USAToday and was reviewed by TIME Magazine Publications as "so cleverly designed that video game developers would do well to study it". Mr. Schalow worked with numerous developers operating state-

of-the-art SGI, PC and Apple computers that eventually built, tested and released the \$1.2 million title to video game and PC software stores nation-wide (Mac/Windows).

October 1991–December 1993                      Mike Greene Recordings, 38 Fresh Recording Studio

*Audio Engineer/Programmer/Producer*

- Mr. Schalow professionally engineered and produced audio and music assets for 38 Fresh in Los Angeles, CA. His achievements with owner, Mike Greene, included many popular music titles, TV show theme music and commercials. Hardware and software tools used consisted of over 50 networked digital and analog devices, such as Moog, Kurzweil, Prophet, Emu, Apple, Yamaha computers and samplers. Some projects Mr. Schalow worked on included #1 Top UK music album for David Bowie, his band Tin Machine, wedding music for David Bowie and Iman, COOL WORLD film theme music (Bowie credit), acts with Warner Brothers and Interscope records, Disney film demo music, Hot Wheels and Barbie toy commercial music (Mattel Toys), emmy-winning theme music for Bill Nye science show (Mike Greene credit), and #3 Top Popular Billboard hit “Jump Around” by House of Pain (38 Fresh credit).

## EDUCATION

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- CL/NLP/ASR Graduate study, special student, Georgetown University, 2006 – Natural Language Processing, Computational Linguistics, and Speech Recognition
- BM, cum laude, Music Industry and Engineering, James Madison University, 1990

## PUBLICATIONS

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- “Improving Web Access for Visually Impaired Users”, *IT Professional (IEEE)* – July/August 2004
- “J2ME Media for the Enterprise”, *UK and Australian International Developer Magazines* – Sept 2003

## INDUSTRY RECOGNITION & NOTABLES

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- Top “Excellent” rating 2005 NIH Plain Language Award for NIHSeniorHealth “Talking Web” (formerly NIH Director’s Pioneer Awards) presented by Dr. Elias Zerhouni, Director of NIH
- Industry Innovation Award for NIHSeniorHealth.gov by the ICAA, 2003
- Best Overall Consumer Portal - Honorable Mention for NIHSeniorHealth.gov awarded by *Medicine on the Net*, 2003
- AMN Mediabroker™ wireless media product (MIDP 2.0/J2ME) featured by *PriceWaterhouseCoopers Media Analysis Corner* and *The Hollywood Reporter*, “Turning Mobile Phones into Media Players” Top News Story Big Idea (April 2003)
- Video Product of the Year Nominee, *PocketPC Magazine* 2002; “MovieBroker” mobile media desktop
- Acknowledgement and internal Google promotion by co-inventor Internet and Presidential Medal of Freedom Recipient, Dr. Vint Cerf, of Mr. Schalow’s Mediabroker™ and “Talking Web” solutions
- Voice input technology recommendations to former Intel Chairman Andy Grove’s speech tech assistant, 2004, for Andy Grove’s daily use of Speech Recognition at his home office
- White Paper “Speakable RFID” written and evaluated by Matrics Sr. Managers prior to \$230 million acquisition by Symbol

## SECURITY CLEARANCE

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- Public Trust (OPM Level 5)

## PROFESSIONAL ASSOCIATIONS

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- Northern Virginia Technology Council (NVTC)
- MIT Enterprise Forum—Washington, DC and Baltimore, MD
- Netpreneur, Morino Institute
- PRNewsWire – Washington, DC & TopTech Region

## OTHER TRAINING AND EDUCATION

- Leveraging the Government Experience through QR Codes, GSA Webinar, September 2011
- Application Security training course, LHC/National Library of Medicine, Bethesda, MD, October 2008.
- VSLive .NET (VB, C#) training, San Francisco, CA, March 2005.
- AVIOS/SpeechTEK Voice search and navigation classes, San Francisco, CA, 2005 and 2006.
- Embedded Sensors, DSP, accelerometer training, Freescale Semi-Conductor, Austin, TX, Oct 2004.
- Designing and Architecting Web Services for J2EE from SYS-CON EDGE in conjunction with IONA, Sun Microsystems, and Oracle Jdeveloper (three-day course), San Jose, CA, October 2002.

## HARDWARE AND SOFTWARE EXPERIENCE

Hardware	Programming Languages	Application and Networking Software	Operating Systems
ARM PocketPC Compaq Dell Emulation MIPS Gateway Intel Macintosh iPad iPhone PCs PowerPC/Mac SH-3 SH-4 Sun SPARC	CGI eVC eVB HTML/5 J2ME J2SE Java J2EE JNI Lingo Objective C Perl PersonalJava PL/SQL SGML VC VC# VB ASP ActionScript XML XHTML	Adobe CS5 MC Darwin (Mac) Flash FTP HTTP HTTPS UDP RMI MS Access MS Excel MS Office MS Outlook MS Project MS Visio MS Word Novell NT Oracle 7x–10x Protocols SecureFX/CRT SourceSafe SQLNavigator SQLNet SQLPlus TeamSite Toad	Crème JVM IBM J9 JVM for StrongARM JDK VMS Linux Macintosh MacOS 7x–10x iOS 3/4 UNIX Windows Windows 200 Windows 95 Windows 98 Windows CE/PPC Windows ME Windows NT Windows XP Windows 7