

Jon W. Bäckström

P.O. Box 375
Indianola, IA 50125

(515) 961-7731 Home
(515) 961-0100 Applied Digital Arts
(515) 961-0101 Fax

Birth: September 29, 1955
San Diego, CA

Internet E-mail and Web:
viking@digital-arts.com
http://www.digital-arts.com

Keywords:

World-Wide Web, Internet, User Interface Design, Technology Research, Instructional Development, Multimedia, CD-ROM, C/C++, Javascript, Perl, CGI, UNIX and Windows NT Systems Administration

Objective:

Seeking a position in the design and development of World-Wide Web resources, user interface design, technology research, TCP/IP networks, instructional development, interactive multimedia production, or technology training. I value the opportunity to design and develop Internet communications networks, interactive multimedia, on-line hypertext help, and performance support systems. I am also interested in UNIX systems administration and technical support.

Competencies:

Systems Administration Experienced installing, configuring, and maintaining UNIX and Windows NT servers. Specific installations include SGI Indy/O2 workstations (IRIX) and PC hardware using Linux, FreeBSD, and Windows NT Server. Also familiar with a variety of other operating systems including BeOS, NeXTSTEP, OS/2, MS-DOS, Mac OS, VMS, and OS-9.

UNIX:

- DNS/bind, sendmail, POP, IMAP
- Apache (httpd), mod_perl, php
- Microsoft FrontPage Extensions
- Netscape Enterprise Server
- ppp, ftp, ircd, uucp, cnews, inn
- LDAP, Sun NFS

Windows NT:

- Microsoft IIS with ASP, SQL Server
- Microsoft Index Server, NetShow Server
- Microsoft FrontPage Extensions
- Microsoft Remote Access Server (RAS)
- Interix (OpenNT), DNS services
- Apache (Win32), Perl (Win32)

Network File Servers:

- Novell NetWare
- Artisoft LANtastic
- Windows NT file sharing, printing, and Macintosh file services
- Samba (Linux)

Computer Programming Proficient using several versions of C/C++, Pascal, and BASIC. Highly skilled with Perl and UNIX shell scripting. Conversant with Python, FORTRAN, Scheme, Logo, and 68000 / 6809 / Z80 / 6502 assemblers. Also capable of programming custom macro scripts for Microsoft Office applications (Word, Excel, etc).

UNIX:

- Perl, Python, GNU C/C++ (gcc)
- CGI scripts, LDAP authentication
- Oracle SQL, Netscape LiveWire
- Javascript, HTML, XML
- mySQL, Embedded Perl
- Bourne shell, csh, tcsh, bash

Windows NT, Windows 95:

- Microsoft Visual Basic, Visual C++
- Microsoft Visual FoxPro, Access
- Microsoft Visual InterDev, Visual J++
- Inprise (Borland) C++ Builder and Delphi
- Symantec Visual Café for Java
- Asymetrix Toolbook (OpenScript)

Macintosh:

- Symantec C++, THINK C
- Symantec THINK Pascal
- MPW (C, Pascal, MacApp)
- HyperCard (HyperTalk)
- Macromedia Director (Lingo)
- Claris FileMaker Pro

Instructional Development Adept in the design, development, and evaluation of instructional materials. Knowledge-engineering skills include several methodologies of task analysis. Have developed computer-based instruction, job-aids, user manuals, modular instruction, programmed instruction, and audio-tutorial systems. Production experiences include the development of instructional materials using a variety of media: interactive videodisc, CD-ROM, NAPLPS videotex, presentation graphics, animation, video imaging, and several desktop publishing systems.

Multimedia Production and Courseware Authoring Experienced in the design, programming, and evaluation of interactive multimedia and computer courseware. Have developed tutorials, laboratory simulations, and software systems for automated course management and test creation. Proficient using many courseware authoring languages, image editing, and animation tools.

Authoring Tools:

- Microsoft Multimedia Viewer
- Authorware Professional
- Aimtech Icon Author
- TenCORE Producer, LAS

Digital Video, 3D Animation, and Image Editing:

- Microsoft Video for Windows
- Apple QuickTime, Adobe Premiere
- NewTek Video Toaster, LightWave 3D
- Autodesk 3D Studio, Animator Pro
- Adobe PhotoShop
- Adobe Illustrator
- Equilibrium deBabelizer
- Macromedia Swivel 3D

Interface Design and Usability Testing Experienced with design considerations for interactive multimedia, computer/user interactions, on-line help, text and graphic displays, and the use of CRT display attributes to enhance the user interface. Participated in usability experimentation to test the effectiveness of various menu selection and screen display strategies used in interactive systems for non-programmers. Current research includes the development of text display strategies for improved reading efficiency, menu design, and the applications of interactive optical media.

Technical Writing Possess excellent writing skills. Experienced in the authoring of technical user manuals, application notes, computer software documentation, research monographs, and articles for publication.

Graphic Arts and Desktop Publishing	<p>Skilled in the use of several desktop publishing systems, PostScript illustration tools, and video imaging systems for Macintosh and PC-compatible computers. Familiar with a variety of graphic processes including text design and layout, mechanical lettering guides, dry transfer materials, lithography, and offset printing.</p> <table border="0"> <tr> <td style="vertical-align: top;">Page Layout:</td> <td style="vertical-align: top;">Text Processing and HTML:</td> <td style="vertical-align: top;">Illustration:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • Adobe Pagemaker • Quark XPress • Microsoft Publisher </td> <td> <ul style="list-style-type: none"> • Microsoft Word • Microsoft FrontPage • Macromedia Dreamweaver </td> <td> <ul style="list-style-type: none"> • Adobe Photoshop • Adobe Illustrator • Corel Draw </td> </tr> </table>	Page Layout:	Text Processing and HTML:	Illustration:	<ul style="list-style-type: none"> • Adobe Pagemaker • Quark XPress • Microsoft Publisher 	<ul style="list-style-type: none"> • Microsoft Word • Microsoft FrontPage • Macromedia Dreamweaver 	<ul style="list-style-type: none"> • Adobe Photoshop • Adobe Illustrator • Corel Draw
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Photography	<p>Skills include the development and printing of both color and black & white film, the development of E6 slides, and the use of lithographic processes. have produced several slide/tape presentations using multi-image formats and programmed-dissolve projection techniques. Produced large-scale lithographic prints for graphic displays. Experienced in a variety of photographic situations including portrait, action, and macro photography.</p>						
Electronics	<p>Trained in the basics of digital and analog electronics. Skilled in the assembly and troubleshooting of electronic projects, printed circuit boards, and connectors. Experienced with simple computer hardware interfacing and the integration of peripherals and systems.</p>						
Music Synthesis	<p>Experienced in the programming and use of several types of synthesizer modules and keyboards. SMPTE tape synchronization, signal processing and sound effects equipment, MIDI control systems, and computer software for composition and the control of musical performance.</p>						

Professional Experience:

- 6/97 - **Meredith Corporation**, Des Moines, IA **New Media Internet Engineer**
 Managing the development of specialized projects and database applications for the corporate Intranet and various publishing groups. Creating specialized CGI interactions and web page customizations using Javascript, Perl, UNIX shell scripting, Microsoft Visual C++, Visual J++, and Visual Basic. Database design and development is centered around the use of Informix with Netscape LiveWire and Oracle with Bluestone Sapphire/Web. Also involved in the evaluation and development of new media channels to present and market Meredith's original content using new consumer information appliances and other electronic publishing technologies.
- 5/95 - 6/97 **Iowa State University**, Ames, IA **Webmaster, UNIX Systems Administrator, Instructional Designer**
 Developed and managed World-Wide Web resources for the Iowa PROfiles Project (Public Resources Online). Systems administrator for an SGI Indy WebFORCE UNIX workstation and Windows NT web server. Responsible for the implementation, administration, and graphic design of web content providing economic, demographic, and development program information for all regions, counties, and cities in Iowa. Created CGI scripts for the UNIX platform using Perl and shell programming tools. Also developed CGI scripts for database queries using O'Reilly WebSite server software, Visual Basic, and various integrated database systems on the Windows NT platform. Also involved with the development of web-based instructional content and the creation of database tools to track student progress using Microsoft Visual InterDev, Java (Visual J++), and Javascript.
- 4/93 - **Applied Digital Arts**, Indianola, IA **Editor and Publisher, Internet Service Provider, Software Developer**
 Writing articles for publication on multi-platform software development, Internet communications, web authoring tools, and user interface design. Technical Editor for *Multimedia Monitor*. Established Infoplex Communications to design and develop World-Wide Web content, custom CGI and Javascript, on-line hypertext help systems, and interactive multimedia. Managed the design and development of PSInet workstation and server software for Infinet, a set of multi-platform e-mail and conferencing tools for the K-12 audience (an NSF-funded project). Also consulted with Drake University as the Technical Director and UNIX systems administrator for the PSInet project.
- 10/91 - 4/93 **OptImage**, West Des Moines, IA **User Interface Engineer, Product Strategist**
 Designed and refined user interfaces for new generations of Compact Disc-Interactive (CD-i) authoring tools. Interface designs included considerations for a number of platforms: Sun OpenWindows, Microsoft Windows 3.1, Apple Macintosh, and the Philips CD-i 605 development player. Managed the design, development, and testing of CD-i authoring tools and utilities designed to run on a PC under Microsoft Windows 3.1. As product strategist for marketing, wrote a series of technical bulletins, application notes, data sheets, and articles about CD-i technology for magazine publication. Also developed strategic relationships with other companies.
- 1/91 - 10/91 **Computer Teaching Corporation**, Champaign, IL **Lead Programmer - TenCORE Producer**
 Lead programmer for TenCORE Producer (version 2.0), a graphically-oriented multimedia authoring system for MS-DOS. Wrote on object editor for manipulating the various elements of a lesson: graphic and text objects, sprite animations, videodisc sequences, library calls, timed elements, and response types. Participated in the graphic re-design of the tool, helping to add a new 3D graphical user interface. TenCORE Producer was coded using the TenCORE Language Authoring System, a PC-based version of Plato's Tutor language.
- 6/88 - 1/91 **Applied Digital Arts**, Bloomington, IN **Performance Technologist, Microcomputer Programmer, Writer**
 Developed computer training programs, multimedia presentations, custom database applications, and technical user manuals for corporate clients. Write freelance articles on a variety of subjects, including the application of multimedia technology in corporate training and multimedia integration under UNIX. Developed and marketed computer-animated sales presentations and microcomputer software for instructional applications. Also created soundtracks for small films and interactive videodisc projects in a home-based MIDI recording studio.

- 8/87 - 2/89 **Indiana University**, Computer Science Department, Bloomington, IN **Technical Communications Specialist**
Responsible for the analysis, design, production, and maintenance of both published and on-line documentation. Helped with the definition of documentation standards and the maintenance of consistent user software environments on the department's UNIX-based workstations and VAX minicomputers. Involved in the design of prototype hypertext information databases and the integration of multimedia technologies for the collection, organization, and dissemination of computer-based information.
- 10/86 - 2/87 **Bibliogem**, Bloomington, IN **Microcomputer Programmer**
Responsible for the design and implementation of assorted instructional applications developed under contract for corporate clients. Target platforms included the Apple IIe, Apple IIgs, IBM PC, and Commodore 64.
- 11/81 - 11/82 **Von's Computers**, West Lafayette, IN **Retail Store Manager**
Responsible for developing the computer store from its inception. Duties included in-store sales, new product acquisition, ordering, repair, on-site installation, and maintenance of computer equipment. Performed systems integration: assisting in the selection of hardware and software, installing applications, writing custom software drivers, training personnel, and creating special cables or configuration DIP-headers, as needed.
- 5/80 - 6/81 **Purdue University**, Electrical Engineering Technology, West Lafayette, IN **Instructional Software Designer**
Engaged in the writing and development of several computer-based laboratory exercises, created instructional support software used to tabulate student performance in self-paced courses, and developed programs to transfer data between various laboratory microcomputers and the Purdue University Computing Center.
- 2/75 - 5/78 **UCLA Neuro-Psychiatric Institute**, Behavior Analysis and Modification Project, Oxnard, CA **Data Analyst**
Summarized and statistically analyzed survey data.
- 9/76 - 1/78 **California Lutheran University**, Thousand Oaks, CA **PBX Operator and Campus Receptionist**
Worked as a PBX operator for the campus telephone system and as a campus receptionist. Managed evening telephone service during the Dallas Cowboy's NFL summer training camps.

Academic Appointments:

- 8/95 - 12/95 **Simpson College**, Division of Adult Learning, Indianola, IA **Computer Science Instructor**
Taught a course in C++ computer language programming.
- 8/89 - 12/90 **Indiana Vocational Technical College**, Bloomington, IN **Computer Science Instructor**
Taught courses dealing with general computer use and skill-building using specific microcomputer applications, including: An introduction to MS-DOS, Advanced MS-DOS, Microsoft Word, and Microsoft Excel. Also taught corporate workshops on general computer use, arranged through the college extension office.
- 6/85 - 8/86 **National Music Camp**, Interlochen, MI (Academic Faculty) **Instructor of Computer Studies**
Taught courses in beginning computer programming during the 8-week summer sessions at the Interlochen Center for the Arts. Courses emphasized general BASIC programming and the use of computers in the arts, including graphics, animation, and computer music synthesis. Also conducted faculty development workshops.
- 8/84 - 5/86 **Indiana University**, Office of Instructional Computing, Bloomington, IN **Associate Instructor**
Taught courses dealing with the development of computer-based instruction, fundamental issues concerning the use of computers in education, and beginning to advanced-level BASIC programming: Fundamentals of Computer Literacy, Microcomputers in Education, Introduction to Computer-based Education, and Technical Issues in Computer-based Education. Duties included faculty development in advanced microcomputer graphics programming, consultation on computer use and hardware acquisition, and microcomputer repair.
- 5/84 - 8/84 **Purdue University**, Creative Arts Department, West Lafayette, IN **Computer Laboratory Assistant**
Laboratory assistant for the Computer Arts Center during the summer session courses. Developed application programs in graphics and music, supervised the operation of the center, organized the departmental computer resources, made recommendations concerning the acquisition of new equipment for the center's expansion, and performed equipment maintenance.
- 6/78 - 5/80 **Purdue University**, School of Education, West Lafayette, IN **Graduate Teaching Assistant**
Taught five semesters of Preparation of Instructional Materials, a course covering the design and production of various types of media, including slide/tape presentations, photographic prints, and display graphics. Assisted in several courses for the department of Instructional Research and Development: Computer Assisted Instruction, Introduction to Instructional Development, and Materials design for Instructional Systems.

Memberships in Professional Organizations:

USENIX Association - System Administrators' Guild (SAGE)
Association for Computing Machinery – SIG: Computer & Human Interaction (ACM / SIGCHI)
International Interactive Communications Society (IICS)
National Society for Performance and Instruction (NSPI)

Academic Honors:

California Lutheran University, Thousand Oaks, CA

Graduated Summa Cum Laude
Member of the Scholastic Honor Society
Departmental Honors in Psychology
Departmental Assistantship in Psychology 77-78
Departmental Assistantship in Computer Science 76-77, 77-78
Elected to Who's Who of American Colleges and Universities

Hilltop High School, Chula Vista, CA

Member of the California Scholarship Federation

Personal Activities:

Executive Director - Indianola Community Network, Indianola, IA 12/97 -
Co-Founder & Vice President – Central Iowa Linux Users Group, Des Moines, IA 5/97 -
Volunteer – Planetarium and Laser Programmer, Science Center of Iowa, Des Moines, IA 8/93 -
Newsletter Editor, IICS – Indiana University Chapter, Bloomington, IN 6/87 - 3/89
President – Greater Lafayette Apple Users Group, Lafayette, IN 5/79 - 8/82
Eagle Scout in the Boy Scouts of America

Hobbies: Art, photography, musical performance (banjo, dulcimer, flute, piano, and electronic keyboards), bicycling, archery, electronics, and computers.

Portfolio:

http://www.infoplex.com	Infoplex Communications (Web development projects)
http://www.prairie.net	Silicon Prairie Communications (Internet services)
http://www.iowa.net	Iowa Online (Non-profit web services)