

DAVID R. HEDGES

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SKILLS

Languages: C, C++, Python, SQL, W3C XHTML and CSS, XML, JavaScript, PHP, CGI, Java
Programming: Multithreading, network protocol design, client/server socket programming, inter-process communication (IPC), database design and ODBC, UML and ER diagrams, Internet RFCs, technical and non-technical documentation, runtime debugging, dump and log analysis
Comp. Sci.: Algorithm runtime and space complexity analysis, object-oriented design, formal languages and automata theory, data mining, buffer overflows
Software: Visual Studio, gdb/ddd, gcc, make, grep/sed/awk/bash, ClearCase, SVN, Siebel, WireShark
Platforms: Linux (desktop and server, Debian, Ubuntu, RHEL), Windows 9x-Vista, Server 2000-03
Protocols: DNS, DHCP, HTTP, FTP, SMTP, POP3, 802.11, 802.3, TCP, UDP, XMPP

WORK EXPERIENCE

Software Engineer

August, 2006-Present

Electronics for Imaging (EFI), Eagan, Minnesota

- Led India team implementing networked product integrations on my requirements, designs, specifications
- Independently implemented major sales-critical features on existing product in C, C++, ODBC/SQL, API
- Analyzed and improved software performance and resource handling
- Isolated and resolved functional defects reported by QA, support, and customers in existing code
- Wrote and documented utilities for automation of engineering tasks in python, bash, sed, awk, xml, etc.
- Developed and initiated successful effort to use vmware for improved development and testing efficiency

Co-Owner, Webmaster, Server Administrator, Editor

September, 2001-Present

TechwareLabs.com (previously HardwarePub.com), Minneapolis, Minnesota

- Wrote and enhanced server-side core infrastructure and administrative applications
- Analyzed site and server performance; implemented changes to handle growth
- Redesigned site graphics, layout, and code for increased efficiency and ease of use
- Maintained and configured business-critical Linux servers, daemons, backups
- Interviewed, hired, and managed new staff members for company growth and new ventures

Technical Consultant, Network Administrator

August, 2001-January, 2006

alwaysBEthere Wireless Communications, Minneapolis, Minnesota

- Developed custom IT/wireless solutions for customer and internal use
- Hand-coded and maintained Inter/Intranet sites as sales & marketing tools in W3C XHTML and CSS
- Maintained, upgraded & expanded network services & hardware to increase efficiency, stability, capacity

OTHER PROJECTS

- Multithreaded web server (C)
- Mesh network for file transfer and chat (C)
- Webmail client (Python CGI)
- Viral epidemiology city simulation (C++)
- Blog; salted hash auth (php, ajax, MySQL)
- XMPP client (Python)

EDUCATION

B.S. Computer Science, Networking Emphasis

September, 2003-June, 2006

University of Minnesota—Institute of Technology, Minneapolis, Minnesota

Cisco Networking Academy

September, 2002-2003

St. Louis Park HS, St. Louis Park, Minnesota