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Hi - and thanks for taking the time to review my qualifications.

The following is not intended as a proper resume but rather an introduction and overview of my experience and skill-set to allow you to determine if there might be interest in further exploration.

I am new to Pensacola from Houston.

I have worked for myself for the last 12 years. It's been exciting (and instructive) but times have changed and it's becoming harder and harder to make it alone. So I'm interested in looking at full-time - or even part-time - positions that might be available and which present a good fit. Contracts also remain acceptable.

I'm not particularly familiar with the market in Pensacola and the surrounding areas. If you don't have a good fit at this time, perhaps you can offer some advice on the market.

### **Introduction**

I am a software developer and manager with over 25 years of professional experience.

The ideal situation for me would be one in which I am able to remain "close to the action." I thoroughly enjoy research, evaluation, development, and deployment of (particularly) software and products or services on/in which it will be used. I am certainly willing to handle project and/or admin management responsibilities as required, but I do want to keep my hands "dirty" as well.

I excel in situations that require solutions or workarounds for (seemingly) intractable or novel problems. I enjoy team environments but can also function as an individual agent when required.

As a brief overview, since late '94, I have paid the bills by sales and support of my own products along with a fair amount of Internet development. From 1977 until 1994, I worked for Atlas Wireline Services, formerly Dresser Atlas, during which time I gained experience ranging from geophysical data processing in a Log Analysis data center - to group management in R&D - to company-wide quality and process improvement - to a leading role in national standards development and acceptance.

As a bit more detail of the last 30 or so years...

### **1994-current**

I am "hav.Software" - <http://www.hav.com/>

My own [commercial products](#) include several C++ and Java Neural Net libraries (havBpNet++, havBpNet:J and havFmNet:J) and havChat (TM) - a nice little non-IRC, TCP/IP server with several applet clients providing standard chat, shared whiteboard and live support capabilities.

My other Internet related experience has been the development and use of Internet applications, Interactive Web sites and tools, and webserver platform development (NeoWebScript Apache mod), with particular focus on Java, JavaScript, NeoWebScript (inline tcl), Tomcat (w/Apache) and some JSP, Servlets, xml/xsl etc.

You can see various demos online at <http://www.hav.com/?content=%2fwebdemos%2ehtm>

I have (JARS) top-rated Java Applets. I helped develop (and continue to use and extend) the NeoWebScript/Apache mod (like PHP but based on Tcl instead of perl).

The largest e-com site I have built and maintained is Back Be Nimble - <http://www.backbenimble.com/> - a nice site hosted on a linux colo and utilizing Apache/OpenSSL/NeoWebScript/Tomcat - offering standard standard SSL secured payment, Gift Certificate payment, Telecheck E-Check payment and PayPal (IPN) payment as well as faxable (partially filled) order forms. Both custom and service affiliate and referral handling is also supported. Back Be Nimble offers over 1,000 products and an unusually high degree of online product configuration support.

Other sites and related projects to which I've contributed can be found on the Services & Clients page of my website, located at <http://www.hav.com/?content=%2fservices%2ehtm>

## **1977-1994**

The remainder of my professional experience was with Atlas Wireline Services, formerly Dresser Atlas.

I began as a digitizer in the New Orleans Log Analysis data center. I moved up into computer operations where I developed the first computer generated log heading (software for film generation) program used in the industry and was subsequently transferred to the Digital Systems R&D group in Houston to work on the logging systems software. I continued to serve in R&D for the next 12 years in formal and acting roles of ever increasing responsibility until I left to try my hand at working for myself in late 1994.

As information - I chose to leave Atlas for several reasons: I was disappointed in the general direction the company was taking (Atlas was bought out by Baker Hughes soon after I left); and I was probably also a bit restless after so many years - a 40-ish mid life thing, I guess. But I left on good terms and am eligible for re-hire.

Anyway - from my time with Atlas ...

I have experience leading and participating in multi-functional and multi-discipline teams comprising research, sales/marketing, legal, customers, suppliers, software development, engineering, hardware, instrumentation and manufacturing, among others.

My background is mainly software and systems development. I am experienced in all phases of development from research and proposal through post-release maintenance and system redesign and on to end of life. I am experienced in developing and managing the development of scientific data processing applications, realtime data acquisition systems, operating systems, device drivers, assemblers, and other development environment support utilities. I am experienced in managing the coordination necessary while designing and developing software that will be used on or in support of equipment concurrently under development. I am comfortable and experienced with project and group management, admin & capital budgets and project time frames from six months to over two years.

I have experience with alternative technologies. I have used Expert System shells to implement scheduling, build (BOM) and verification applications. I have developed and trained Neural Networks used for 1-D and 2-D forward modeling and inversion of electromagnetic logging instruments and their measurements. I have integrated the Clips Expert System shell (from NASA) and my own Neural Net C++ Class libraries to produce a package that combines Expert System (rule based) and Neural Net processing so as to allow rules to "hit" a NN from either the right or left hand side - and to allow a Neural Net to use rule processing as part of node activation calculation and/or weight adjustment.

From 1988 to 1994, I represented Atlas on a national standards committee - the American Petroleum Institute (API) D9-subcommittee responsible for data interchange standards. I am an author of the Digital Log Interchange Standard (DLIS - RP66 - now supported by POSC - <http://w3.posc.org/RP66V1/> ).

Over the years I have always enjoyed instructing and mentoring others in various software and quality disciplines. Several examples would be:

- tutoring in the comp sci department at Loyola (while in school)
- mentoring staff in various software technologies and methods over my years with Atlas
- acting in a lead role for the introduction of overall quality and process improvement efforts within Atlas in preparation for ISO 9000 certification.
- teaching a Java course at Kingwood College in Houston - 12 wk/48 hr course for experienced C++ and OO developers

In the area of Quality, I am a certified and experienced Master Instructor of the Crosby Quality Education System. I am a Certified Quality Analyst and have received some training in Malcolm Baldrige examination. I am experienced in Software Quality Assurance and was responsible for the development of a company-wide Software Quality Assurance Program sufficient for DOE contract requirements for software used in weapons testing and nuclear waste storage. I am also familiar with the requirements of ISO 9000 in general and ISO 9000-3 in particular.

Just for fun - and if you like little puzzles - here's one (sort of related to quality - *errrhemmm*) from which you might get a giggle or grin - answering the question:

*"Just WHY is it so hard to test software?!!"* <http://www.hav.com/horror.html>

## Summary

In summary, specific experience and abilities that I can offer include...

Software Engineering, Integration and Project Management;

Languages - Java, C, C++ (including Visual C++), Visual Basic, FORTRAN, Lisp, Xlisp, and Assembly;

Platforms - PC (various Microsoft and \*nix), SUN (SunOS), IBM (AIX), HP (HPUX), Perkin-Elmer (16 & 32 OS), VAX (VMS)  
- I also have some review level knowledge of several SMP boxes - Convex, Cray, SGI, HP, SUN, Alpha;

Internet - Java, Javascript, Tcl, Perl (little - prefer Tcl), HTMLScript (now "Miva"), NeoWebScript (developer), html (of course) - Apache, WebSite, Netscape Commerce Server, IIS - PostgreSQL, DB2, Bdb, GD etc.;

Alternative Technologies - Clips, GoldWorks I&II, NeuralWorks, NeuroWindows and my own packages (havBpNet:J, havBpNet++ & havFmNet++);

Software Quality Assurance - government contracts and ISO 9000-3 certification in addition to teaching and deploying overall quality and process improvement;

Broad-scoped Data & Relationship Modeling (DLIS-RP66).

## Technical Skills

This section contains a brief summary/enumeration of equipment, languages, platforms and applications that I have used or developed with first-use or time frames where appropriate. It's probably not comprehensive but may serve as an example.

### Equipment and O/S:

HP 9000 (HPUX)  
IBM RS6000 (AIX)  
SUN-Sparc (SunOS)  
VAX (VMS)  
Perkin Elmer 7/16, 8/16E, 8/32 & 32/xx (O\S-32, O\S-16, DOS)  
PC and clones (various Microsoft and \*nix/linux)

### Languages:

Java - 1996  
JavaScript - 1995  
Tcl 1996  
HTMLScript (now called "Miva") 1995  
C++ - 1988  
Visual C++ - 1994  
C - 1984  
Visual Basic - 1992  
FORTRAN - 1977  
LISP (Xlisp and GCL) - 1985  
assembly (6502 and Perkin Elmer - general register  
like IBM 360 assembly) - 1982  
VAX MACRO - 1988  
Various command/script languages - 1977

### Internet Specific:

Apache (including co-development and use of NeoWebScript mod) - 1995  
PostgreSQL (also DB2)  
Berkeley DB  
GD (for on the fly web graphics)  
OpenSSL  
etc.

### Expert Systems:

Gold Works I & II - 7yrs  
CLIPS - 5 yrs  
ECLIPSE - 6 mo  
from scratch (class project cosc-6366 '89)

### Neural Networks:

Netware - 6 mo  
NeuroWindows - 1 yr  
havBpNet++ & havFmNet++ - Own libraries 1992

### Review Level Familiarity (or historical use):

IIS, Netscape Commerce Server  
ADA, ARTBASIC, 6502 assembly, PASCAL, COBOL  
NEXPERT-OBJECT, VP-EXPERT  
KEE, OPS5,

## Applications:

Internet Applications - webserver, e-com sites, chat, site stats, spiders etc. - 9 yrs,  
Data Acquisition - real time (to microsecond granularity) - 7 yrs,  
Scientific Data Processing - filtering, optimization, modeling etc. - 15 yrs,  
Development Environment Tools - assembler, cross reference DB/engine,  
import/export, etc. - 15 yrs,  
Libraries - low- to mid-level - scientific, communication, neural net etc. - 10 yrs,  
Device Drivers - 5 yrs,  
Operating System (in-house) - 5 yrs

## Positions Held:

### 10/94 - cur. hav.Software

Owner, operator and developer of hav.Software - Commercial and Custom Software Development. Current commercial products are havChat (chat, whiteboard and live support / Instant Message) and several Java and C++ class-libraries for Backprop and SOM (Self Organizing feature Map) Neural Network architectures. I also offer services for custom and contract development.

### 1977 - 10/94 Atlas Wireline Services (formerly Dresser Atlas)

10201 Westheimer, Houston, Texas 77042

4/94-10/94: Manager, Application Systems - Atlas Technology, Systems Engineering

1992-1994: Sr. Staff, Systems Analyst - Interpretation,  
Research & Advanced Development (IRAD), Advanced Scientific Research

1991-1992: Manager, Quality&Test (acting Manager, SQA -Technology) –  
Atlas Technology, Software Systems Engineering

1982-1991: R&D, Digital Systems Group, Houston, Tx.

1989-1991: Manager, Computerized Logging Systems Development

1988-1989: Project Engineer

1985-1988: Sr. Research Engineer

1983-1985: System Analyst

1982-1983: Research Engineering Associate

1977-1982: New Orleans Log Analysis Center, New Orleans, La.

1980-1982: Computer Operations Supervisor

1979-1980: Computer Operator

1978-1979: - break for school -

1977-1978: Digitizer

## Other Experience:

1980-1982 Tutor in Computer Science department of Loyola University, New Orleans.

Tutored language and architecture courses.

1975-1977 Johnness Realty, New Orleans, La. Assistant Manager of a 56 unit tourist motel.

1973-1975 ODECO, New Orleans, La. Roustabout on offshore drilling rig.

1971-1973 U.S. Army, 82nd Airborne Division, Fort Bragg, North Carolina

Honorable Discharge (1973) - 11B1P - highest rank: E3

## Publications / Presentations:

Vallas, H.A. Jr. (1995). The Bonsai Master - An Allegory for Management. The Journal of the American Bonsai Society, Winter-95, Vol 29, #4, pg 152-153 ( <http://www.hav.com/bonsai.html> )

Vallas, H.A., Jr., Mezzatesta, A.G., & Strack K.-M., (1993). Resistivity Log Inversion using Heterogeneous Artificial Neural Networks. Expanded Abstracts with Biographies, 1993 Technical Program of the Society of Exploration Geophysicists (SEG), WS7.2 1395.

Vallas, H.A., Jr. (1993). Avoiding the Evil "Spirit." The Digital Review - July/August, 1993 pg 18-20.

Vallas, H.A., Jr., (1992). Results Oriented Quality...(not a contradiction). The Journal Of the Quality Assurance Institute - April, 1992 pg. 16-24.

## Personal Data:

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1989 University of Houston, Houston, Tx - Graduate work in AI and Knowledge-based systems.

1979-1982 Loyola University, New Orleans, La. - Computer Science - minor Math (BS curriculum)

1974-1976 Loyola University, New Orleans, La. - Music Therapy - minor Classical Guitar (BA curriculum)

Hobbies: Bonsai, Classical Guitar (past: Fencing)

## Technical Training, Certifications and Membership:

AWS Management-II - AWS internal  
Effective Negotiating - AWS sponsored - Karrass  
International Neural Network Society (INNS) - member since 1992  
Master Instructor: Quality Education System - Crosby Quality College, San Jose, Ca.  
Q.E.S. Instructor - Q.W.G. Facilitation Instructor - Q.W.G. Facilitator  
Quality Improvement Process (QIPM): Management College - Crosby Quality College, Dallas, Tx.  
Certified Quality Analyst (CQA) - Quality Assurance Institute  
Assessing and Improving Information Systems Quality - Quality Assurance Institute  
Effective Speaking and Human Relations - Dale Carnegie  
Project Management - AWS internal  
AWS Management-I - AWS internal  
Advanced Unix - AWS sponsored - Uni-Komp  
Introduction To Unix - AWS sponsored - Uni-Komp  
Building Knowledge-Based Systems with Gold Works - Gold Hill  
Vax/VMS Advanced Concepts - AWS sponsored - DEC  
Jr. Field Engineers Training - AWS internal