

# Resume for Laird Hariu

## Overview:

- Authored econometric forecasting models for Chase Bank.
- Entrepreneur in the mini-computer systems business. Had a successful start-up.
- Lead technologist for a Market Research firm for over 20 years. Brought them from the mini-computer era to the Internet era. Integrated this firm with a much larger international company when it was sold.
- Wrote a cross tabulation statistics package in C/C++ with over 100K lines, in use for over 20 years.
- Wrote ERP package for process manufacturing.
- Wrote integrated Order Entry, Billing, Job Cost and Inventory control system for job shop manufacturer. Was used for over 20 years.
- Wrote an Accounts Payable system for a Market Research firm.
- Supported large Learning Management System (Moodle) for thousands of users in the Southeastern PA area including custom theming. Used Ansible to manage the configuration of 27 sites.
- Operating a successful Open Source oriented consulting firm.

## Technical Skills:

- Hardware systems: Univac 1108, IBM 370, Data General Nova Mini, Wang Mini, DEC VAX mini, IBM PCs, x86 tower and rack servers, integration, spec and assembly.
- Operating Systems: Univac Exec 8, IBM VM370, Data General RDOS, Data General DMS 24, WANG VS-100, VAX VMS, MS-DOS, PC-DOS, SCO Unix, Redhat Linux, Debian Linux, Ubuntu Linux, Solaris, Open BSD, Windows 95, 2000, 2003, XP, Vista, 7, 10. Windows Server NT, 2000, 2003, 2008. Mac OS-X.
- Programming Languages: Assembler, Fortran, RPG, FPG, COBOL, Pascal, C, xBase, Perl, PHP, JavaScript, Postscript, pgSQL, Visual C++, Visual Basic.net, nodeJS, Ruby on Rails, jQuery, Laravel.
- Networking: Active Directory, LDAP, WINS, DHCP, VPN, SSL, DNS, CSU /DSU's, terminal servers, Frame Relay, routers, IPchains firewalls, LAN/WAN, SNMP, Remote access, WWW, terminal emulators, Ethernet Switching, VLANS, VOIP, CIFS, SSH.
- Interconnectivity: Ethernet, RS-232, Protocols: (NetBEUI, CIFS, TCP/IP, IPSec VPN, SSL VPN, TLS), Cisco routers, DSU/CSU's, switches, hubs, patch panel + wiring closet design, VNC, LinkSys Routers, Wireshark, TCPdump. PCI.
- E-Mail: Exchange 5.0, Exchange 5.5, Exchange 2000, 2003, 2007, Sendmail, Exim, Postfix, Dovecot.
- Open Source: Redhat Enterprise, Suse Enterprise, Fedora, Debian and

Ubuntu Linux, Samba, PostgreSQL, pgPool, MySQL, Xen, KVM, Drbd, Heartbeat, Pacemaker, Nagios, Slony, Mono, Virtualbox, Ipchains, custom Linux kernels, Git, Apache, Drupal, osCommerce, Putty, Sendmail, Exim, Moodle, ownCloud, Bacula.

- Technical Management: Project Management, System Analysis, Business Process Analysis, Hiring, Purchasing, Enterprise Architecture.

## **Professional Experience:**

### **Web / Database Developer, Chester County Intermediate Unit**

Educational Institution in Downingtown, PA

February 2012 – April 2018

Supported a large online education system. Developed infrastructure for cloud storage service. Programmed new web applications in PHP/Laravel and Ruby on Rails. Developed and maintained MySQL databases. Website graphic design. Game design and programming with Ruby on Rails, LimeJS.

### **Systems Engineer, IVAR Systems, LLC**

Computer Systems Engineering Company in Media, PA

September 2009 – Present

<https://www.ivarsystems.net>

Independent contracting. Linux server building, PostgreSQL database clusters, Xen and KVM virtual machines, highly available Linux clusters, embedded Linux product development, software development in .Net/Mono, Drupal web programming, part-time CIO.

### **Sr. Manager, Special IT Projects at GfK Custom Research**

Marketing Research company in Media, PA

January 2008 – May 2009

Performed special projects within North American IT Infrastructure corporate services organization. Liaison with operations. Supervised site administrators. Helped implement Global Crossing WAN. Helped consolidate Exchange e-mail systems and Active Directory domains. Implemented a centrally managed encryption system for 400 laptop computers. Supervised equipment replacement. Provided technical support for large Solaris Unix servers.

### **VP and IT Director at ARBOR, Inc**

Marketing Research company in Media, PA

November 1984 — January 2008

I was the chief technical decision maker and implementer. I handled the transition from dumb terminal computing with the VAX to client/server network computing with Linux and Windows servers. Used Linux for the web server,

email gateway, firewall and for our main statistics production server. This production server ran SAS, SPSS, file sharing with Samba and my cross-tab package. We used Windows servers as the domain controllers, Exchange mailbox server and for file and printer sharing. All desktop client machines (over 100) were Windows/Office clients.

I wrote the main market research cross tabulation package used by the research staff for over 20 years. I performed: C/C++ programming, systems integration, PC install and maintenance, website programming, networking, email server administration, large Unix/Linux server build and administration.

### **Sr. Programmer/Analyst at Crane Company**

Manufacturing company in King of Prussia, PA  
March 1980 — August 1984

I was the only computer person at the King of Prussia plant that employed 120. A Wang Mini-computer was used for all accounting applications. I designed and coded in COBOL an integrated order entry, billing, inventory control and job cost system.

### **Sr. Systems Analyst/ Project Manager at Information Systems Marketing**

Mini-Computer Company in Exton, PA  
January 1977 — February 1980

Infomark was a full service manufacturer and marketer of Data General Nova based small business computers which were installed on a turnkey basis. I was a founding employee and developed and installed packages for the distribution and manufacturing industries. I did everything imaginable to get this company off the ground. The company grew from one employee to over 80 employees in under three years. We went through several rounds of venture capital financing.

### **Research Assistant at Chase Bank**

A financial services company located in Bala Cynwyd, PA  
July 1974 — September 1976

At Chase Econometrics I designed and wrote econometric models used to forecast farm equipment and agrochemical sales.

### **Education:**

Bucknell University  
BA, Economics 1974  
Graduated Cum Laude

**Activities:**

Secretary of a Community Association, Zoning Hearing Board, Church Council, Sunday School Superintendent, Sunday School Teacher, Church Treasurer, Philadelphia Linux Users Group.

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