

## **Chad M. Dabinett**

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## **Experience**

### **Application Development**

- Languages: C, C++, C#, Java, Delphi, x86/ARM/MIPs Assembly.
- OS Platforms: Linux, BSD, Windows.
- Hardware: Intel x86, ARM, MIPS reference systems.
- Tools: GCC, Visual Studio, Delphi, Eclipse, Komodo.
- APIs: Win32, Libc, VCL, DOM.

### **Network Programming**

- Languages: C, C++, Perl, Delphi.
- Platforms: BSD, Linux, Windows.
- Sockets: BSD Sockets, Winsock (win32), BPF.
- Protocols: TCP/IP. 802.11bgn. 802.3. HTTP, DNS.
- Focus: High performance BSD/Linux server applications.

### **Web Development**

- HTML, CSS, Javascript/AJAX, Perl. LAMP.
- Apache 1.x, 2.x. Node.js, Prototype, cufonts, Raphael.js, Canvas.
- Exhaustive boiler plate and framework development experience with Javascript.
- Focus: WebGL. I've mastered the above...

## **Work History**

AZ Real Estate MLS Online Oceanside, CA Senior Software/Web Engineer and DevOps	Jan 2016 - Present
<ul style="list-style-type: none"><li>• MLS property and participants data extraction for online search database (in C).</li><li>• Linux Systems administration (Nginx, pm2/Node.js, PostgreSQL, etc)</li></ul>	
Part-time Status and Consulting with some prior clients	2015
Packetsled, INC Del Mar, Ca. Senior Network Software Engineer (hourly)	Jan 2014 – Nov 2014
<ul style="list-style-type: none"><li>• Network sensor and deep packet inspection (dpi) integration and development</li><li>• Gnu tool chain based platform (Linux x86-64)</li></ul>	
ProtoBee LLC Encinitas, Ca. Staff (software) Engineer (hourly)	Sep 2013 – Dec 2013
<ul style="list-style-type: none"><li>• Contract Engineering – Product Prototyping.</li><li>• Audio masking - Embedded Linux.</li><li>• Consultation with research scientists as needed.</li></ul>	
UCSD Research Company Scripps Ranch, Ca.	Jan 2013 – Jul 2013

Research Developer (ongoing term contract)

- Tool development for performance analysis/modeling applications on HPC systems.
- Libarmd – Open source ARM disassembler (v7, 32 bit).
- PSinsPlot – Power/Performance graphical report generation application.

Raveon Technologies  
Carlsbad, Ca.

May 2011 – Dec 2012

Part time Consultant (as needed)

- Cigorn internet router software development (C/C++)
- Router installation package construction, fully automated (C, shell, Perl), auto start, logging
- Peer review and analysis of existing C++ framework

Sony Electronics  
Rancho Bernardo, Ca.

May 2010 – May 2011

Senior Software Engineer – Contract only

- Implemented Javascript and Konfabulator based widgets for Sony TV (embedded).
- Video Explorer App – Essentially IMDB for the TV (people, features).
- Designed and successfully deployed custom JS Ajax modules for Gracenote media library to display both binary, text and formatted content on Sony TV.
- Widgipedia – A searchable wikipedia application for the TV.
- Twitter App – A twitter application (user input and display) for the TV.

Nuuvio, Inc.

Oct 2009 – Dec 2009

Senior Web Developer – Contract only

- Designed and developed a prototype Ajax powered web domain (widgets). Javascript front end. Python/PHP backend. MySQL DB.
- Custom advanced drag and drop feature developed in Javascript for audio sample replay application.

Private Company

Mar 2008 – May 2008

Senior Web Developer – Contract only

- Repaired a number of different websites along with customized features via xmlhttp/ajax/php.
- Designed and developed a high performance web crawling application (Win32). Ex. Could pull down and parse based on keyword from craigslist.org 300-400 posts per second.

Qualcomm, Inc.  
Mira Mesa Ca.

Oct 2007 – Mar 2008

Senior Software Engineer – Contract only

- Architect/Develop specialized Perl scripts that test the stability and fault points of proprietary wireless devices - based on requirements from RF/Chipset/Test engineers.
- Developed and deployed a cell log report application with a fully dynamic javascript front end, specifically for Internet Explorer (their preferred browser) – super fast, minimal markup.

Airgain, Inc.  
Carlsbad, Ca.

Aug 2005 – Aug 2007

Firmware Software Engineer (wireless)

- Incrementally developed, maintained and ported phased array antenna steering software to a wide variety of 802.11bgn oriented reference boards ala firmware.
- Optimization of Upper MAC for BCM 4712/5352/5354 drivers.
- Developed an online test laptop tracking system for QA (Apache+Perl).
- Developed an online tracking system of inventoried design boxes for Engineering (Apache+Perl).

Cast and Crew Entertainment Services, Inc.  
San Diego, Ca.

Mar 2005 – June 2005

Contract Software Engineer

- Aided software manager with in house production accounting tool development (ANSI C, Gcc)
- Trained and provided assistance to documentation engineer (Perl, OOD, Doxygen)

Aplus.Net

Sep 2004 – Feb 2005

Mira Mesa, Ca.

Dedicated internet server and support engineer

- Handled advanced Unix inquiries and support for dedicated server customers
- Migrated existing customer host platforms to more stable server environments
- Monitored multi-homed upstream networks (Level 3, UUnet)
- Installed and configured software on customer's dedicated servers (Linux, FreeBSD)
- Recommended, tested and deployed automated backup solutions (remote file synchronization, dump)
- Configured firewalls for customer's Win2k3, Linux(fedora) and FreeBSD dedicated servers

TMC - The Mate Company  
Temecula, Ca.

Feb 2004 - June 2004

Outside sales engineer (P/T)

- Sold data storage and fiber optical cabling to existing and new customers
- Handled all customer inquiries into data storage and network connector technologies

Internet Express, Inc  
San Diego Tech Center, Mira Mesa, Ca.

November 2003 - June 2004

Lead Software engineer and Network Administrator (P/T)

- Developed a custom spamfilter to bypass the failings of SpamAssassin on all email servers
- Developed a new backup archiver, replacing the classic Unix utility Tar
- Consulted and participated in all future (hence more advanced) hosting solutions
- Modified and significantly upgraded DNS automation for new hosting accounts
- Rebuilt and configured the entire email server infrastructure, reducing previous network utilization from spam by more than 90%
- Reduced spam to all customers by more than 85%
- Solely developed a new whitelist and blacklist web console for easier configuration by customers

Midway Entertainment, Inc  
Mesa Rim Blvd , Mira Mesa, Ca.

August 2003 - November 2003

Software quality assurance (QA) analyst (temp, F/T)

- Play tested Playstation 2, Xbox and GameCube console games
- Debugged and tested Alpha to Beta stage bugs within game software into reporting database

- Credits: Spyhunter 2, NFL blitz 2004
- Scored second highest evaluation for comprehension and performance of work (98%) among new testers

Wish Nexus

Mar 2001-June 2003

Alki Avenue SW, Seattle, Wa.

Webmaster and Network Administrator

- Single handedly developed a new and refreshing hosting model for high streaming customers
- Designed, developed and maintained divahost.com and wishhost.com shared hosting portals
- Automated all network statistical reports, real time chat/email/phone support, hosting plan purchasing and billing.
- Provided scalable solutions for customers with ultra high streaming needs (50+ mbps)
- Customized and redeveloped various portions of the FreeBSD network kernel for optimal performance
- Remotely managed all Webhosting (apache 1.3x), Email (sendmail/qmail), Database (mysql), DNS servers (Bind 8/9) on FreeBSD 4.3 systems

CableLogics, Inc.

August 2002-Dec 2002, April 2003

AT&T Broadband, 145th North Aurora Avenue , Seattle, Wa.

Speed Internet (HSI) and cable service installer

- Installed external RG-6 coaxial cabling from utility pole to residential dwellings
- Setup and configured internal cabling inside residences
- Constructed Multiple Dwelling Units (MDU) for commercial and condo facilities
- Performed full spectrum sweeps of cable lines (40-960 mhz)
- Ultimately brought video and high speed internet service to AT&T Broadband customers

Alma Networks, Inc.

Sept 2000-Mar 2001

2600 2nd Avenue, Seattle, Wa.

Lead software engineer

- Led a team of Ten(10) software engineers on the prototyping of a Network Intrusion Detection black box appliance – Ninjah 1000.
- Devised out of the box code for testing existing theories of TCP/IP packet capture
- Heavily modified the BSD/OS and FreeBSD kernels to gain significantly greater throughput of network traffic over 100 mbps (an accomplishment at the time...).
- Sampled and beta tested Intel's IPA-100 and NPX-1200 network policy cards
- Designed and developed a high performance database for easing the tracking of packet specifics during testing and further development.
- Co-responsible for a expense budget of \$250,000 (research and development)

Reliablehosting, Inc.

Mar 2000-Sept 2000

693 Modesto, South Lake Tahoe, Ca.

Principal contract web developer and dedicated server engineer

- Single handedly designed and developed the wildly popular prepaid card redemption portal – adultpaid.com and adultprepaid.com.
- Handled 75% of dedicated server and shared hosting support tickets
- Wrote all base perl/cgi scripts for reliablehosting.com (whois, formmail, counters)
- Completed a software based firewall system for Unix systems (Linux,BSD)
- Completed a custom packet sniffer, which was light years ahead of other open source alternatives

Vista Internet Services, Inc.

Jan 1996-Feb 2000

298 Kingsbury Grade , Stateline, NV.

Unix/Windows/Network Administrator, Software Engineer and ISP Consultant.

- Built and deployed large clusters of FreeBSD, OpenBSD, Redhat Linux, Windows NT 4 and Macintosh desktop oriented local area networks, through switches, smaller routers and hubs.
- Administered several dozen(~50) Web, Email and DNS servers.
- Designed a new prototype firewall system based on the TIS toolkit.
- Configured all IP address nodes and subnets (multiple /24 groups).
- Handled and automated daily network administration
- Wrote and maintained service level agreements (SLA) between our customers
- Wrote all software utilities and tools for billing, customer account tracking, help ticket system and network statistics.
- Developed a Windows real time chat application for our customers