

Alan Bailward

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Qualifications

- Designed and developed internet appliances with full web administration
- Software developer, including senior developer
- Senior C software engineer for the Firecard embedded security device.
- User and administrator of the Linux operating system since 1994
- ISP System Administrator in a high pressure, minimal downtime environment

Skills

- Security: SELinux, firewalls, VPN, intrusion detection, secure programming
- Operating Systems: Linux, UNIX, VMS, Windows Server/Desktop, MacOS
- Programming Languages: Perl, CGI, C/C++, BASH, SQL, JavaScript, Java, VBScript/ASP
- Network Technologies: Secure network design, Standard internet services, TCP/IP, SANs
- Technology: Network administration, Apache, internet services, version control, databases (MySQL, PostgreSQL), webapps using the LAMP stack, open source software

Work History

Senior OS Developer

June 2008 – April 2009

Layer 7 Technologies, Vancouver

- Project Leadership of Appliance Platform: helped define and built hardware platform for network security device used in Commercial and Military web service security
- Maintained, updated and secured the Red Hat Enterprise Linux 4 and 5 server based embedded appliance distribution for networking appliance hardware
- Responsible for system administration of engineering servers
- Developed and tuned VMware Server and ESX versions of our product distributions.
- Developed and Maintained STIG (US Military spec security guideline) compliant embedded networking appliance operating system build
- Developed compliance to SELinux based US Federal government specifications
- Drastically improved system build time through scripting, automation and documentation

Systems Administrator, Architect

March 2006 – June 2008

Uniserve Communications, Vancouver

- System Administrator of Linux, BSD and Windows servers in a high pressure, minimal downtime environment
- Developed a web application for client maintenance and tracking network usage
- Maintained backup, email and anti-spam solution for clients
- Quickly responded to client support issues
- Worked with high end IBM Blade Servers and SAN technology

Deployment Specialist

October 2004 - March 2006

TSC Software, Mission

- Project managed and completed large client installations of hardware and Java based software on Windows, Linux and Mac platforms
- Initiated and deployed network monitoring system to 40+ clients utilizing the Big Brother network monitor

Web Developer

August 2003 - September 2004

Premier School Agendas

- Designed and implemented educational web applications on several high traffic websites
- Converted corporate site from static HTML to fully dynamic database driven site
- Implemented a Version Control System for developers
- Maintained servers in a multi-tiered architecture

Contract Programmer

July 2002 - Present

AHI Contract Programming, Mission

- Designed and programmed web applications including a Real Estate website administration system, full featured and re-usable Content Management System and online website builder using Perl and MySQL
- Developed a web application for Insurance Underwriting using EmbPerl and PostgreSQL
- Deploying a learning management system on a Win2k/SQL Server/VBScript/FrontPage platform

Online Game Programmer

May 2002 - June 2002

Faststorm, Abbotsford

- Created high performance Perl daemon for game processing engine under a tight deadline
- Contributed to the design of the web based user-interface
- Administered the product website

Senior Software Engineer

April 1998 - March 2002

Netmaster Networking/Merilus, Chilliwack

- Senior programmer in charge of the web based internet appliance administration system and Firecard security device
- Developed Perl applications for embedded software and administration of a web portal
- Programmed high speed data transfer utility and core system utilities as lead C programmer for the first Linux based computer on a PCI card
- Managed five programmers with skills in Java, Perl and C
- Established network security in the company LAN and products
- Tested and did quality assurance and technical support

Technical Support / System Administrator

September 1994 - April 1998

Fraser Valley Real Estate Board, Surrey

- Responsible for the weekly creation of the Real Estate catalog for Fraser Valley distribution
- Improved efficiency of image processing and data collection for web based initiative
- First and second level technical support, and system administration

Volunteer Experience

- 2009 – Member of the Fraser Valley Ruby Brigade (a Ruby on Rails user group)
- 1999 – 2005 - Created a geek dating site called *Peer 2 Peer Personals* using Perl and PostgreSQL
- 1999 – 2007 - Co-founded the Fraser Valley Linux Users Group
- 1999 – 2001 - Contributed to the *Galeon* and *XFMail* open-source projects
- 1998 – Present – Administrator of UFies.org and TDIClub.com high traffic server with shell users, mail, virtual web hosts, and other services

Personal Strengths

- Detail oriented
- Excellent communications and interpersonal skills
- Problem solver and self starter
- Excels in both team and solitary work environments, and works well with people of all ages and seniority levels
- Flexible and able to change gears quickly
- Learns quickly and works well under pressure

Education

- Bachelor of Science in Computer Information Systems, University College of the Fraser Valley, Abbotsford, 1998

The CIS degree program was designed to give students a wide variety of exposure to the high tech workplace. Topics included programming, database administration and design, OOP and system design and analysis. There was also a heavy emphasis on business skills such as accounting and communications.

References

Personal and professional references are available on request.