

# Alan Bailward

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- 12 years software development experience, including senior developer.
- 15 years experience with the Linux operating system.
- 8 years Perl experience, including mod\_perl, Mason and EmbPerl.
- 8 years as an Internet server administrator for a high traffic website.
- Senior C software engineer for the Firecard embedded security device.

## Skills

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- **Programming Languages:** Perl/CGI/mod\_perl, C/C++, Ruby, UNIX shell tools, SQL, JavaScript, Java, VBScript/ASP MS Access, and Object Oriented methodologies.
- **Technology:** Network administration, Apache, Internet services, version control, DBA (MySQL, PostgreSQL, SQL Server), open source software. Also proficient in HTML/XML, CSS, Photoshop and image editing.
- **Security:** Design and maintenance of firewalls/VPN, secure programming, secure network design.
- **Operating Systems:** Linux, BSD, UNIX, VMS, Windows 95/98/2k/XP/2003/Vista, MacOS.
- **Network Applications:** Linux/Unix firewalls, VPNs, clustered Databases, tcpdump, Ethereal, Snort.
- **Network Technologies:** Standard internet services, TCP/IP, intrusion detection, IPMI.

## Work History

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### Systems Architect, Uniserve Online – Mar 2006-Present

- System Administration of \*BSD, Linux, and Windows servers in a high pressure, minimal downtime environment.
- Maintenance and upkeep of email and anti-spam solution for client base.
- Ability to quickly respond to a variety of client issues from email to firewall.
- Developed a web application to enable client maintenance and tracking of network usage data using Perl/HTML::Mason and PostgreSQL.

### Deployment Specialist, TSC Software – Oct 2004-Mar 2006

- Coordinated large client installations of hardware and software.
- Project Management and installation of 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, Premier School Agendas – Aug 2003-Sept 2004**

- Designed and implemented core content display system of several high traffic websites.
- Converted corporate site from static HTML to a fully dynamic database driven system using OOP techniques.
- Implemented a Version Control System for developers.
- Maintained servers in a three tiered architecture.

**Contract Programmer, AHI Contract Programming – July 2002-Present**

- Wrote a high end Real Estate website administration system (<http://sothebysrealty.ca/>).
- Created a full featured Content Management System with Perl and MySQL, deployed on five websites.
- Created a flexible and featured online website builder (<http://rubbertoaster.com>).
- Helped design and implement the user interface and core components to create an Insurance Underwriting web application.
- Participated in several projects involving web connected databases using Perl.
- Deploying a learning management system on a Win2k/SQL Server/VBScript/FrontPage platform.

**Online Game Programmer, Faststorm – May 2002-June 2002**

- Created high performance Perl daemon to handle game processing under a tight deadline.
- Contributed to the design of the web based user-interface.
- Administered the PHP-based informational website.

**Senior Software Engineer, Netmaster Networking / Merilus Inc. – April 1998-March 2002**

- Lead C programmer for the first Linux based computer on a PCI card.
- Senior programmer in charge of the web/Perl based internet appliance and Firecard security device.
- Managed five programmers with skills in Java, Perl and C.
- Helped establish network security in the company network and products. Involved in application design and implementation.
- Quality assurance and technical support specialist.
- Perl application development for core embedded software deployment and system administration.

**Technical Support and Sys Admin, Fraser Valley Real Estate Board – Sept 1994-April 1998**

- Responsible for creation of the Real Estate catalog for Fraser Valley distribution.
- Improved efficiency of image processing and data collection for web based initiative.
- System administration and first and second level technical support.

## **Volunteer Experience**

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- 1999 – 2005 - Created Peer 2 Peer Personals, a fully dynamic dating website using Perl and PostgreSQL.
- 1999 – 2007 - Co-founder Fraser Valley Linux Users Group.
- 1999 – 2001 - Contributor to the Galeon and XFMail open-source projects.
- 1998 – Present - Setup and maintain UFies.org and TDIClub.com; a high traffic server with shell users, mail, virtual web hosts, and other services.

## **Personal Strengths**

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

## **Education**

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- BS in Computer Information Systems – **University College of the Fraser Valley**  
July 1993 - July 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**

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Personal and professional references are available on request.