

Judd Vinet

Email: jvinet@zeroflux.org

Education

- University of Victoria, Victoria, B.C.
 - Completed a B.Sc. degree in Computer Science
 - Graduated in Fall 2004
- Salmon Arm Senior Secondary, Salmon Arm, B.C.
 - Graduated in 1998

Computing Experience

Programming Languages: C, C++, Java, Pascal, Basic
Scripting Languages: Bash, PHP, Python, Perl
Database Systems: MySQL, PostgreSQL, SQLite, MS SQL, mSQL
Operating Systems: Linux, OpenBSD, FreeBSD, Solaris, Windows, QNX, DOS
Web Frameworks: Mojavi, Symfony, Django, CakePHP
Software: Apache, CVS, BIND, Exim, GCC, GDB, iptables, LVM, LVS, Mailman, NFS, OpenOffice, OpenSSH, OpenVPN, pf, Postfix, ProFTPd, SAMBA, Xfree86/Xorg, vsftpd

Examples of Computing Experience

- Founded the Arch Linux GNU/Linux distribution¹ in late 2001. The project is still running strong and I continue to serve as the main developer/maintainer.
- Created a Linux package manager² that tracks installed packages, dependencies, and their meta-data. The program can manage all dependencies and keep a system up to date by automatically downloading packages from a remote repository. This program is now used in multiple Linux distributions within the open-source community.
- Designed and developed a PHP web framework for use with contract web development projects. It sports a lightweight dispatcher and MVC-based structure with a focus on minimal code redundancies, readability, and rapid development time. Not yet released to the public, but still in very active development.
- Designed and developed a TCP/UDP port-knocking application³ for Linux. The application's primary use is to obscure the existence of open services (ports) on a server. To activate the hidden service, the client delivers a specific sequence of "port-hits" to the server. Ostensibly, the server appears to be ignoring the request to these closed ports, but in reality, it is carefully watching the sequence for the "magic knock" that will open up the service in question (eg, port 22 for SSH). While not a complete security solution in itself, it does add a layer of obscurity that can deter would-be crackers from finding exploitable services. After the first release, this project made a brief appearance on Slashdot⁴.
- Set up multiple web clusters using Linux Virtual Server as a load balancer with

- dynamic round-robin weight updates based on back-end server loads, Apache as the web server, and MySQL with master/slave replication.
- Designed and developed an online classified ads system using PHP and the mSQL database engine.
 - Installed and configured a fully-functional heterogeneous network consisting of Linux, Windows, and OpenBSD computers, with servers running SSH, DNS, FTP, HTTP, SMTP, IMAP, POP3, NFS, and SAMBA services.
 - Designed and developed a functional data storage application for MS-DOS using a self-developed console windowing system and rudimentary flatfile database techniques.
 - Achieved a score of 5 (highest possible) on the 1998 Advanced Placement Computer Science Exam, qualifying for university credit for first-year computer science.

Additional Skills

- Strong experience with the GNU/Linux operating system.
- Good understanding of high-level programming languages.
- Experience with heterogeneous networks and intranet services.
- Experience with NAT, load balancing, firewalls, QoS.
- Good experience with web-based applications and frameworks.
- Some leader/management experience:
 - Provide leadership and direction for a geographically-distributed team of open-source developers.
 - Guide a team of coders for a web-based product.

Work Experience

Web Developer / System Administrator (contract)

Varien, Inc.

October 2006 - Present

<http://www.varien.com>

Los Angeles, CA

- Responsible for backend programming and database work for various eCommerce clients (PHP/MySQL)
 - Heavily-modified code based on osCommerce
 - Custom backend systems for reports and order management
 - Assisting management in fostering a healthy and prolific open-source community for a new eCommerce product slated for launch in Summer 2007
- Responsible for all maintenance of client Linux clusters
 - On call 24/7 for any emergencies, in charge of load balancing, data replication, backups, query optimizations, etc.

Web Developer (contract)

Transitional Media, Inc.

<http://www.tm.ca>

Victoria, BC

June 2006 - Present

- Responsible for all backend programming and database work (PHP/MySQL)
 - Cut up web designs into templates for backend integration
 - Interface design for use with non-technical users
 - Communicate directly with clients to assess their needs
 - Time-sensitive projects – quotes must be accurate
 - Good time management skills

Web Developer / System Administrator (contract)

Wondermill Webworks Inc.

<http://www.wondermill.com>

Victoria, B.C.

October 2000 – March 2004

September 2004 - Present

- Designed and coded a large piece of software for ad brokerage and affiliate management.
 - 50,000 lines of PHP code
 - Medium-sized MySQL database hosted on a Linux cluster
 - Tracks monies owed using custom-built accounting systems
- Designed and coded a web form processing system for use by those with no scripting skills.
 - Uses the Symfony Web Framework and AdoDB
 - Approximately 30,000 lines of PHP
 - Large-sized MySQL database hosted on a Linux cluster
 - Service provides a form-generator wizard and plugs easily into any website
 - Back-end engine is used by multiple front-end websites
- Designed and administered multiple high-availability Linux clusters where uptime was crucial.
- Built custom in-house software for company/intranet organization and management.
- Responsible for building and maintaining various servers, both internal and external.
- Participated in meetings to discuss technical strategies, new designs, and future plans.

Software Developer

COE Group

<http://www.coemfg.com>

Salmon Arm, B.C.

April 1999 – September 1999

April 2000 – September 2000

- Developed front-end software running on Windows NT 4.0 for Trimmer/Edger sawmill optimization machines using Visual C++ 5.0.
- Used advanced database software such as Microsoft SQL Server for back-end data storage.
- Designed interface layouts for GUIs.

Website Developer

S TEQ Web Design & Hosting
Salmon Arm, B.C.

January 1999 – January 2001

- Designed and coded web pages using PHP/HTML/CSS/Javascript.
- Used mSQL and MySQL database engines to store data.
- Used Perl and PHP to add dynamic content to web pages and to interface with the backend database servers.
- Used Adobe Photoshop to create web graphics.

Related Experience

- Assisted teachers in high-school computer science courses.
- Achieved a high grade in a self-directed Computer Science Honours course.

Interests

- Computers: operating systems, programming, networking, open-source development, social networks
- Outdoors: scuba diving, hiking
- Music: guitar, audio production

References

Available upon request.

- 1 <http://www.archlinux.org>
- 2 <http://www.archlinux.org/pacman/>
- 3 <http://www.zeroflux.org/knock/>
- 4 <http://slashdot.org/article.pl?sid=04/04/14/1832222>