

Jeffrey Froman

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Summary of Qualifications

Jeffrey Froman is a professional administrator, developer, and technology manager with over eleven years of experience building and deploying services for enterprise corporations. He has repeatedly demonstrated the ability to conceive, architect, and launch services from the ground up, both as a solo artist and while managing small teams of programmers. Jeffrey's specialties are creativity, simplicity, and long-term sustainability. His skills include:

- Expertise in Unix-based system and network administration, including deployment, operation, and maintenance of web, email, and database services
- Fluency with the Python programming language, Django, WSGI, Bash/Shell, SQL, XML, XHTML, HTML and CSS
- Basic knowledge of C, Perl, PHP, and other programming languages
- Mastery of written and spoken English
- Competency with written and spoken Spanish
- Trained expertise in written and spoken communication
- Eleven years experience telecommuting from a well-established home-office environment

Professional Experience

Independent Contractor

Port Townsend WA, 1997- Present
Senior Administrator/Developer

Develop database-driven business applications for small to large businesses, deploy and maintain those applications in Unix-based hosting environments. Specific projects include:

- Built and installed a complete Content Management backend for Kerry Shamblin's planetaryinfluence.com. Using Python, Django, MySQL and WSGI. Kerry continues to rely on this application to attract customers and stimulate her thriving business.
- Designed, engineered, and deployed a complete online classroom environment for courses offered by The Institute For Visual Education, using Python, Django, MySQL and CentOS. Led a team of three developers and designers who collaborated to complete the application.
- Enhanced the original Online Reservation System (OLRS) used by Rainshadow Properties to include periodic special package rates, using Python and MySQL. The new section includes a

web-based management console, and an automatically updated web page that encourages new guests to book specials. I also performed regular bugfixes and site maintenance for the original OLRs application.

- Customized and deployed the social networking application that drives [Lifework Planning Services](#), using Elgg, PHP and MySQL, including addition of enhanced user profile features, automated database backups, and a development staging area for future enhancement testing. Trained subsequent PHP programmers to continue development.
- Revitalized [PTguide](#) with a ground-up rewrite of database design, application logic, and management functionality, using Django. Coordinated with designers and templating artists to similarly revamp the look and feel of the site. This rewrite turned PTguide from a management nightmare into an easily maintainable, profitable business.
- Modernized hotel management and reservation system for [Rainshadow Properties](#) with a full application re-design using Django to replace a deprecated web framework. Improved workflow design will greatly reduce effort and time required to manage Rainshadow Properties' two popular hotels.

OlympusNet (Townsend Communications, Inc.)

Port Townsend WA, 2002- 2011

Senior Administrator/Developer

Developed, deployed, and maintained all Internet connectivity, email, web hosting, and database services for approximately 3000 customers. Specific accomplishments include:

- Architected a complete web-based management system for all available OlympusNet services from scratch, using Python and MySQL, including requirements, database design, application logic, and user-interface design. Led a team of five programmers to completion of the project, and wrote full user documentation. This system successfully managed OlympusNet's entire business for over seven years.
- Transformed OlympusNet's service network from a hodgepodge of loosely glued mismatched parts into a unified system of integrated components based on the CentOS operating system. Developed shell scripts to completely automate all aspects of server setup and maintenance. The new structure saved OlympusNet hundreds of hours of management time every month.
- Conceptualized and coded a universal HTML form handler application, using Python and WSGI, allowing OlympusNet web hosting customers to process arbitrary web forms without any programming knowledge. Wrote complete user documentation. This application attracted significant hosting business for OlympusNet.
- Planned, configured, and deployed a fully automated redundant data backup and recovery system for all company and customer data, using Bacula, MySQL, Python, and custom shell

scripts. Quick and easy data recovery allowed OlympusNet to avert disaster on several occasions, and provided a backbone of confidence for both staff and customers.

- Conceived and designed one the Internet's first [Greylisting](#) implementations, with a team of four other developers, using Python, Exim, and MySQL. This application immediately slashed email spam by a whopping 96%, annihilating the vast majority of spam for all OlympusNet customers.
- Invented and built an innovative Certified Email system using Python, MySQL and Exim, whereby email senders can certify receipt of email, and even verify the content of previously certified email. This service proved vital to a core group of OlympusNet customers that required strong non-repudiation in the normally nebulous world of email.
- Designed and implemented a complete state-of-the-art web hosting solution, including deployment of web, email, and database servers in a flexible multi-server architecture, and construction of an automated, web-based management interface using Python, Django, and MySQL. This offering served hundreds of hosting customers.
- Created Python bindings for Domain Name Service (DNS) registration management through [SRSPPlus](#), using Python's C API. Added higher level module interface in pure Python for integration with Django-based management system.

Various non-IT related professions

Washington, Colorado, British Columbia, 1988 - 1997

- Treeplanter
- Breakfast cook
- Wandering mystic

Achievements

- Founding member of North Olympic Peninsula Linux User's Group (2005-2007)
- Author, "Linux: Returning To The Source", published in Vigilance Magazine (November 2004)
- Author, "Slackware Current HOWTO". published by LinuxPackages.net
- Author, "[Slackware Upgrade 9.1-10.0](#)", published by LinuxPackages.net
- Florida state policy-debate champion (1983-1984)

Education

- Bachelor of Philosophy, with honors, University of Colorado
- In-depth communication and research training at Bates College and Northwestern University