

**SEAN DEELY WOODS**

306 Sears St
Philadelphia, PA 19147

T 267-496-8662
F 215-467-7701
seandeelywoods@mac.com

<http://www.efoyoc.com/sean>

PROFILE

I am a network engineer and Tcl/Tk developer. I find the two skills compliment each other. To administer effectively requires automation, and to program effectively requires a mind for implementation. I specialize in projects that require a broad understanding of human dynamics, network protocol, and operating system design.

PUBLICATIONS

Woods, Sean (2007) "Tcl Data Interface Framework (TDIF)", Proceedings of the 14th Annual Tcl Developer's Conference
Woods, Sean (2006) "The TCL Architecture of Objects (TAO)", Proceedings of the 13th Annual Tcl Developer's Conference

SKILLS

Expert C and Tcl/Tk programmer, utilizing MySQL and Sqlite databases
Web Developer using Tcl to develop dynamic content delivery engines
Years of in-depth experience administering mixed Linux, OS X, and Windows 2003 server environments
Design, implementation, and rollout of Microsoft Active Directory and Exchange 2007

EDUCATION

Completed 4 years of a 5 year program towards a degree in Electrical and Computer Engineering from Drexel University in Philadelphia, PA

EXPERIENCE**SENIOR NETWORK ENGINEER, THE FRANKLIN INSTITUTE, PHILADELPHIA, PA — 1999-2008**

Responsible for building the internal network, connecting it to the internet and scaling it to support the needs of over 300 users. Built and configure a linux based router to connect the museum to Internet2, allowing it to become a major content provider. Maintained a heterogenous server environment integrating Windows 2003, Linux, and Mac OS X servers tied together through Active Directory. Developed and programmed web-enabled databases to track everything from library manuscripts to exhibit repairs. Most recent accomplishment was the successful rollout of an Exchange 2007 environment to our business users.

- Managed Linux, OS X and Windows Servers
- Implemented VPN / Firewall / Remote Management solutions
- Configured and managed SAN and Tape libraries. Prepared & executed Backup and Disaster Recovery Plan
- Evaluated Bids and Proposal from vendors
- Developed In-house software products using Tcl/Tk and MySQL
- Prepared presentations on future technology direction and impact
- Supervised and directed network contractors

WEBMASTER, EXCURSIONS FROM THE SQUARE, PHILADELPHIA, PA — 2007-ONGOING

Developed and provide ongoing support for the organization's website, written in Tcl and sqlite. The product allows the client's staff to post travel itineraries and other information to the general public. The system is designed to allow the desk staff at the company to completely manage the content. The system automatically pulls out of date tour information.

DATABASE GURU, CAMPING COMMITTEE OF THE PHILADELPHIA FOLK SONG SOCIETY, PHILADELPHIA, PA — 2001-ONGOING

Developed and provide ongoing support for the organization's website. The site is written in Tcl and MySQL. It is used to process volunteer registrations for the Camping Committees 800 active volunteers. The system also exports data to Microsoft Access, allowing it to feed mailing lists and interface with other committees at the festival. The system runs locally at the festival site to produce attendance and evaluation rosters for volunteers.

DATABASE DEVELOPER, BENJAMIN FRANKLIN TERCENTENARY PROJECT, PHILADELPHIA, PA — 2002-2003

Developed a portable database that was used by curators to travel the country and capture data for the Benjamin Franklin Tercentenary Project (aka Ben's 300th birthday). The system stored an encyclopedic description for artifacts and manuscripts, as well as keywords for indexing. Included in the descriptions were document quality photographs and detailed provenance. The system was written in Tcl and MySQL.

PHILLY2NITE.COM, FREELANCE LINUX DEVELOPER, PHILADELPHIA, PA — 1998-1999

Freelance contractor for a web startup, Philly2Nite.com. Maintained Linux-based email and web server. In support of their operations, developed a tool to cache information from a remote Lotus Notes server as static pages in Apache. Developed a banner rotation system for advertisers, a traffic pattern analyzer, an e-newsletter mass mailer, and an SMS based mass-event notification system.

WEB DEVELOPER, DREXEL UNIVERSITY/ABERDEEN PROVING GROUNDS, PHILADELPHIA, PA — 1998

Contracted through Drexel University to develop a website, written in Java, to deliver weapon performance data over the web. The system tied into Oracle via JDBC, and would allow customers of APG to download tables of data in a secure and timely manner.

KULICKE AND SOFFA INDUSTRIES, TCL/TK DEVELOPER, WILLOW GROVE, PA — 1996-1998

Tcl/Tk developer working on software used to exercise K&S's Factory Automation suite. Developed a simulator that mimicked the network traffic produced by products from the K&S's product line. Designed program logic, database schema, and GUI driven tools. Packaged software for distribution through the use of InstallShield.

REFERRALS

[Available on Request]