Audin N. Malmin

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Skills

Networking: Extensive knowledge of IP networks, firewalls (iptables), caches (squid), and satellite systems (S64, SBB, Ku)

Integration: Extensive experience leading efforts to integrate complex systems involving new and old software from multiple parties

Operating Systems: UNIX (mostly Linux), Windows, OS X

Programming Languages: Perl, Java (servlet & applet), C (full size and microcontrollers), SQL (Oracle, Postgres, MySQL), PHP, Javascript, shell script, X11, GTK+, HTML, CSS

Hardware: research, selection, assembly, installation, troubleshooting and repair of microcontrollers, network hardware, etc

General: Extremely adept at troubleshooting complex systems; ability to quickly place issues into their wider context; good at anticipating problems; good liaison between technical and non-technical teams; ability to work either in a team or independently; quick and eager learner; easy going, flexible, adaptable.

Work Experience

System Architect, OnAir USA, Inc., 2005 - present

www.onair.aero

Designed and guided implementation of OnAir's nXt system which provides satellite Internet access to 100+ aircraft operated by Emirates, Singapore, and other global airlines. nXt provides a portal-style interface offering passengers news articles, airline information, destination information, and the ability to purchase Internet access. nXt is highly optimized to efficiently utilize a slow and expensive satellite-based network. I was the technical leader behind the design, planning, implementation, and deployment of the system. Additionally I headed the efforts to integrate the system on five third-party aircraft platforms from Boeing, Airbus, and IFE vendors, chairing weekly teleconferences with these companies, directing the software integration and performing the network and firewall integration personally.

I was the key Internet system technical person for the organization. System planning (hardware, software, infrastructure) and design. Help with implementation in Perl, Java, various script languages. Troubleshooting of aircraft and ground systems. iptables, cisco routers, vlans, selinux, various virtualization systems, pppoe, isdn, inmarsat satcom, ARINC 429 and 781.

Contract Programmer, Ursus Technologies, Inc., August 2004 - 2005

Clearwire, www.clearwire.com

Software planning, design, and implementation in Perl and PHP for a MySQL database driven web-based shopping cart and customer resource management system for a wireless internet provider. This includes interfacing with other services (both in and out of house), credit card transaction handling, report generation, wireless modem management, and user interface design. Unix system administration: shell scripting, backup, security monitoring, initial setup and configuration, email, web, firewalling.

SeaMobile

Implemented a system to automatically control a shipboard CDMA cellphone network. Personally wrote the software to use data from a radio 'sniffer' to dynamically find and select unused radio frequencies in order to avoid interference with nearby shore CDMA networks. Wrote the protocol handler (in perl) from scratch to communicate with the radio hardware. Wrote a geographic control system to disable the system progressively as the ship approached known ports or specified 'off-limits' areas.

Programmer / Sysadmin, GeneClinics / GeneTests, The University of Washington, Jan 2001 - August 2004

www.genetests.org

Provide informatics support for the GeneClinics and GeneTests projects. Programming: Java Servlet and Applet development, Oracle SQLPlus, XML document handling with Java and XSLT, document handling with MediaWiki. Unix system administration: shell scripting, backup, security and hardware monitoring, initial setup and configuration. Windows sysadmin: support ~15 Windows machines. Samba administration. Network support: Run cable, purchase / install hardware, firewalling for three networks. General hardware and software help, support, research and purchasing decisions.

Educaton   **Bachelor of Science**, Computer Science, The Evergreen State College

Associate of Arts, South Puget Sound Community College, 1997

Personal Interests   In my free time I am an avid Analog Photographer. Last year I built a large darkroom in my basement. I particularly enjoy early technologies such as Wet Plate Collodion.

I also enjoy working with microcontrollers, particularly AVRs, in the C language, and have built several gizmos, simple (motion-sensing stairway lighting) and complex (photographic enlarger timer with a VFD display providing a menu interface, rotary encoder, 120V integration, and audio feedback). I have recently taken up 3d printing and built a Delta-style printer. I also restore antique motorcycles, and am fascinated by space flight, nuclear physics, archaeology, woodworking, radio, philosophy, and pottery.