Karl Hanzel

Contact:

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Career Objective:

To utilize my Linux/Unix & heterogenous systems administration experience & skills, software engineering, & science education for a *conscientious* organization who's mission has *tangible benefit* to humanity & the planet. Particularly keen on *contract* or *part-time* opportunities in the Boulder area.

Specific Skills:

All aspects of Linux (primarily Red Hat, Debian, and their sub-distros) and Unix systems administration (primarily Solaris, HPUX, & AIX). Very familiar with Mac OS X environment (including Server), as well as MS Windows. VMware vSphere virtualization. Very well versed in standard Unix utilities, TCP/IP networking, LAN/WAN essentials. Apache web server configuration. Firehol, iptables, and Cisco ASA configuration. Amanda, Bacula, NetWorker backup & restoration services. LDAP services & phpLDAPadmin configuration. Samba (SMB) services. DHCP, DNS & BIND, NIS services. Logical Volume Manager (LVM), and Solaris DiskSuite . 'Have configured & used virtual machine desktop environments with VMWare & explored Xen. Cisco VPN client-ware. Linux High Availability (Linux-HA) Clustering. MPI. MySQL, Postgres, Informix, Oracle DB installs & basic configuration. SSH, TLS & SSL certificates. Basics of AD and Exchange services (via Shoreline administration). Ruby on Rails web application development environment, including Mongrel load-balancing. Amazon EC2 & Rackspace cloud computing environments, with some minimal knowledge of Chef configuration management tools. 'RHCSA. Nagios systems monitoring.

Have programmed in C, C++, Objective-C, Pascal, Fortran high level programming languages, as well as various shell and Perl & Python scripting. Limited experience in i'86 assembly language programming & other specialized device-level programming. HTML & related coding. SVN, Git, RCS code repositories. 'Adept at package builds & porting.

Systems cabling, networking, and componentry for a wide variety of hardware, including servers and workstations, tape drives & tape library systems, disk subsystems, SCSI, FibreChannel, RAIDs, printers, network hubs and switches, KVMs, UPSes, etc., and familiar with NAS & SAN system concepts.

Simple analog and digital circuitry skills. Basic soldering of electrical & plumbing, brazing, basic carpentry.

Education:

Graduate level coursework in Computer Science and Engineering, Oregon Graduate Center, Hillsboro, Oregon, '84/85

Achieved B.S. in Natural Science (Chemistry, Biology, Mathematics, Physics), Lewis and Clark College, Portland Oregon, '78-'82.

Studies have included: Aerospace Engineering, Biology, Chemistry, Computer Science, Mathematics, Physics, Telecommunications, Solar Thermal & Radiant Heat systems.

Significant Work Experience:

Systems Administrator, Unavco, March '12 – July '16 ; diverse responsibilities, including principle administration role of vSphere environment of several physical hosts and several dozen VMs, fiber-based SAN datastore infrastructure. Cisco networking. Amanda and NetWorker backups. Member of Unavco GreenTeam.

Systems Administrator, Onsemble, Oct '09 ~ Oct '10, consulting; Launching a startup, Linux SAing, WRF weather modeling, cloud computing, datalogger communications, and other diverse duties.

IT Support, Economics for Peace Institute, Apr '09 – on-call, part-time consulting; General IT

support for a non-profit start-up. Accomplished the initial web pages, at www.econ4peace.org, etc., and then helped luanch a Drupal re-deployment effort.

Website Developer, The Member Ship, May '09 – Feb '10, part-time consulting; Website development for non-profits, using the Drupal environment on LAMP.

Systems Administrator, Waterstone Environmental Hydrology & Engineering, Boulder, Colorado, Feb '08 - Aug '08, part-time; Administration of Linux servers and MS Windows desktops. Help-desk support. Web (apache) & DB (MySQL, Postgres) administration. Studied-up on the Ruby on Rails web development environment.

Systems Administrator, COMET/UCAR, Boulder, Colorado, '93 – '07, full-time; Oversight of the COMET program's computing environment, with emphasis on administering UNIX (Solaris, HPUX, some AIX), and Linux servers and workstations, Mac OS X, MS Windows desktop systems. Experienced with a wide variety of peripheral HW & SW systems. Web (apache) & DB (Informix, Oracle) server installation and basic administration. Primary computer network security responsibility. Most recent projects included integrating a new tape library, and deployment of high-availability web servers. Lead on project to implement HA'd file, DB, and mail servers. Represented COMET on the Computer Security Advisory Committee, Network Coordination and Advisory Board, and Advisory Committee for Central Infrastructure Services. Routine Help-desk support. Was also the unofficial "ETC" or Employee Transportation Coordinator for all of UCAR/NCAR (not an official UCAR title, but that of the City of Boulder). Initiator & overseer of UCAR's Blue Bike program, co-chair of the Transportation Alternatives Program (TAP), and Environmental Stewards Program (ESP).

Prior to my long-term position at UCAR, I had several other relevant (if dated) positions:

Software Engineer, Solbourne Computer, Longmont, Colorado, '92/'93, consulting; Designed and developed a curses-based user interface for the Unix SVr4 set of package installation tools.

Member of Technical Staff, Interactive Systems, Boulder Colorado. '88-92; Functional verification design & testing of a wide range of Unix command utilities & system software. Debugging of network utility commands. OS2/SQL functional verification testing. Posix compliance testing. Unix System setup, configuration, & administration. SCSI device driver test programming. Removable media disk utility programming. CDROM application programming and porting.

Software Engineer, Western Digital, Boulder. '87/'88; Debugging/troubleshooting the "ViaNet" networking software product in conjunction with the customer's application software in a Customer Support -way, and working with Development/Engineering.

SysOps Group Member, University of Colorado, Boulder. '86/'87; Basic Systems programming & administration. Backup/restore operations, Network and general system wiring for a large and wide range of computer systems and peripherals.

Engineering Technician, Intel, Aloha, Oregon. '84/'85; Engineering support of the Dry Mask Lithography lab overseeing Production. Designed and implemented procedural tests and changes to the process for improved production. Design & programming of a Basic application for analysis of imaging accuracy.

Pursuits, Activities, & Interests:

Sustainability, soaring, permaculture, gardening, bicycling, climbing, skiing, kite skiing, kite design and fabrication, tennis, fishing, sailing, kayaking, photography, meteorology, cartography, recycling, alternative energy systems, home brewing. Skilled at chess, mediocre at go. My self-designed home ('03) has been featured in the '03 & '07 Solar Home Tours. Featured in an NPR interview about rainwater harvesting (June '09). Adopted a large, geriatric wolf-dog in '08 (since passed on). 'Raising chickens & ducks (mostly for eggs), and am now the human companion to a ~12 year old Malamute that has enjoyed going to work with me and socializing with the other beings there.

References:

Available on request. 'Can draw from a wide pool of personal and professional references, including immediate supervisors, and key co-workers.