

David D. Kaiser

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Executive Summary

Focused professional with cross-cutting skill-sets in the areas of software development, solution engineering, system design, and system administration.

Ability to manage a large amount of diverse projects and solutions, balancing the needs and requirements of customers, community and proprietary interests.

Known for expert technical problem-solving, systems integration and design skills that cover a wide-ranging landscape of computing technology, irrespective of platform choices such as hardware, operating system or programming language. Understands changes and shifts in the technology landscape, capable of setting course and direction for a technology-focused team.

Technical Skills Summary

- Very competent in Linux system design, architecture and applications, including Linux kernel, Apache, Samba, LPR, Cups, Sendmail, Postfix, DHCPd, BIND, and most other applications
- Computer architectures, including: Intel, PowerPC, MIPS, and ARM processors, bus technologies such as PCI, PCMCIA and SCSI, Ethernet network topologies and protocol, audio and video capture and display devices, etc...
- Languages: C, C++, Java, x86 Assembler, C# (.Net)
- Scripting and meta languages: PHP, Unix shell (sh, csh, bash), Python, XML, HTML, SQL, Perl
- Object/broker and messaging/middleware stacks: COM/DCOM, CORBA, DBUS, JMS, MQ

Employment History

Product Manager, Tracking Solutions

Environmental Systems Research Institute, Redlands, CA

July 2007 – Present

- Team-leader for an 8-person product development team. Establishing objectives, monitoring progress of development, assuring success of overall effort. Setting company-wide objectives for dynamic data and temporal-spatial tracking software.
- Providing all aspects of solution consulting for the ESRI Tracking Server and Tracking Analyst product set. Supporting global customer base in developing tracking solutions in the Transportation/Logistics, Energy/Utility and Homeland Defense/Security arenas. Responsible for all solution deliverables to premier customers, including design, prototyping, development, implementation and support.
- Meet with existing and prospective business partners to ensure their success in integrating 3rd-party and partner products with Tracking Server. Work with business partners to answer technical questions and develop prototypes.
- Assist with training efforts, helping conduct courses world-wide, working with the training course instructors, helping students acquire skills in the product features. Providing internal training and support for team-members and other co-workers.
- Provide assistance with all technical-marketing and showcase demonstrations involving the Tracking Server software. Develop situational-awareness and common-operating-picture application prototypes. Installed a demonstration system to monitor security at a major national sporting event, and demonstrated at international conferences.
- Led the development of a new web interface tracking client. Instigated the project, designed the solution, created the first working prototypes, and led the efforts of a team of developers to complete the project. The web interface is currently being used in major cities for tracking vehicles responding to 911 calls.

Technical Lead, Integrated Solutions

Environmental Systems Research Institute, Redlands, CA

June 2004 – Present

- Key resource in Linux and open-source software troubleshooting and consulting, supporting a team of 100+ people when they required assistance with Linux systems. Attempt to bring open-source understanding to a proprietary software development group.
- Provide technical vision and leadership for many other technology initiatives throughout the company, including RFID, mobile computing, etc.
- Technical consultant for security solutions, assisting with solution designs that integrated company software with external security systems.

Unix Systems Programmer / Analyst

Loma Linda University, Loma Linda, CA

October 2002 – May 2004

- Developed next-generation web interfaces to Web, E-mail, Calendaring, and LDAP Directory applications based on Linux, Apache and applications written in PHP.
- Evaluated open-source e-mail and directory service applications based on the Postfix, Cyrus IMAP, and OpenLDAP applications.
- Worked in a campus environment, ensured compatibility between various disparate systems and departments. Provided knowledge and training of Linux and open source software, developed maintenance and operations manuals for new systems. Created operational procedures based on industry best-practices.

Senior Linux Consultant

Linuxcare, Inc., San Francisco, CA

December 1999 - July 2002

- Lead developer in Linuxcare's Scalable Solutions consulting group.
- Architected and implemented Linux solutions in the standard Linux desktop, Internet appliance, embedded thin-client, and network attached storage arenas.
- Solutions developed included: custom Linux laptop distributions (pre-load for IBM Thinkpad laptops), custom server-management and deployment applications, and a customized Linux server distribution which provides web integration into existing client network infrastructures.
- Provided both on-site and remote consulting and support services for major OEM computer manufacturers, including IBM, Dell, Sun, Gateway, and S3.
- Performed modification of standard Linux kernel device drivers to support new sound, usb, and network devices and integrated APM (Power Management) functionality.
- Lead developer on the Linuxcare Bootable Toolbox, a business card-sized bootable CD rescue/recovery disc. This mini-CD, which fits into a wallet, can boot a Linux environment on any Intel-compatible computer, providing an instant Linux distribution to use in installing or recovering a Linux server.

Senior Consultant

KPMG, Inc., Costa Mesa, CA

January 1997 - December 1999

- Consultant in the Hi-Tech solutions group in KPMG, and provided consulting services to west coast client's of KPMG's Hi-Tech manufacturing clientele, including: Western Digital, Cisco and Xircom.
- Web solutions architect for an enterprise data warehouse system solution developed at Western Digital, implementing data mining, OLAP (on-line analytical processing), quantitative and statistical reporting interfaces, as well as interfaces to ERP (enterprise resource planning) and CRM (customer relationship management) systems.
- Developer on the NetAid.org charity web site developed jointly by KPMG, Cisco and the United Nations Development Program. Built in conjunction with technical staff from RedHat, VA Linux and Linuxcare, the Linux/Apache powered website was capable of handling 4000 secure e-commerce transactions per second, and handled over \$2,000,000 in donations over a 24-hour period.

Interactive Title Developer

CompuDesign Group, Ltd., Lincoln, NE

March 1996 - December 1996

- Lead Developer at a small multimedia solutions development group.
- Developed prototypes for next-generation automated teller machine (ATM) systems.
- Developed interactive clients and servers for trade-show and kiosk driven applications.
- Authored CD-ROM based Computer-based-training (CBT) applications.
- Produced 3-D animations and captured NTSC video to Quicktime, AVI and MPEG formats.

Customer Support Technician

Internet Nebraska, Lincoln, NE

December 1995 - December 1996

- Performed remote software installations at customer sites.
- Fielded incoming support calls and resolved customer issues.
- Implemented trials of prototype VOIP (voice over IP telephony) software on Linux.

Game Programmer

Nordic Software, Inc., Lincoln, NE

August 1995 - March 1996

- Ported educational games from the Macintosh platform to the Microsoft Windows (16-bit) platform.
- Developed cross-platform audio and graphics libraries API's.
- Performed bug checking and user testing.

Systems & Network Administrator

Foundation for Educational Funding, Inc., Lincoln, NE

February 1991 - July 1995

- Responsible for maintaining 25 Novell and Windows NT servers, and 400 DOS & Windows PC's. Managed a network-wide backup system, LAN/WAN gateways, switches, and physical network infrastructure.

Education

May 1995: Bachelor of Science, Computer Information Systems
Union College, Lincoln, NE

Accomplishments

Mar 2006: Strategies for implementing a Common Operating Picture 90 min. presentation
ESRI Developer Summit 2006, Palm Springs, CA

Aug 2003: Building a "run-from-CD" Linux distribution 4 hr. tutorial
Australian Unix Users Group 2003 Annual Conference, Sydney, Australia

Feb 2001: Creating a Mobile Linux Device 90 min. presentation
Linuxworld Conference & Exhibition, New York, NY

References available upon request.