

David W Capella

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Unix/Linux Systems Administrator

Employment

Linux Systems Administrator
Mountain View, CA

Google
2006-Present

- Dogfood Team - provide support for Google products to Google employees
- Liaison with engineering teams
- Author tools utilizing production technologies to interface with corporate infrastructure

Systems Administrator
Ithaca, New York

GammaTech, Inc.
2004-2006

- Interface with contractors and architects on construction projects
- Specify, purchase, and deploy iSCSI/Fibre SAN
- Repair improper configurations in existing systems: SMTP, IMAP, DNS, WIFI, NIS, NFS, etc.
- Upgrade network security to modern standards, eg, eliminate clear text passwords on the LAN and WAN
- Replace proprietary firewall with dedicated OpenBSD system for reduced cost, increased functionality, and improved control
- Redesign network to better distribute load, increase security, and implement secure WIFI and VPN
- Design, build, and install new servers to redistribute loads, improve security, and increase capacity for current needs and expected growth
- Build, install, wrote software for new backup server to implement disk-to-disk-to-tape system to replace inadequate systems spread across several machines.

Systems Administrator
Ithaca, New York

Cornell University Dept. of BSCB
2001 - 2004

- Manage all computing activities in a modest-sized active and diverse academic department
- Perform hardware and software repairs
- Maintain departmental computer network consisting of heterogeneous platforms, including Linux, BSD, Solaris, and NT/2000/XP in multiple server environment with 99.9% uptime
- Design, build, and maintain production high availability, network RAID storage system
- Design, build, and maintain MPI, PVM, and Beowulf supercomputing clusters
- Work with CIT to develop innovative firewall prototype for production deployment at multiple sites across campus. Currently incorporates filtering, NAT, routing, WIFI, and IDS functions on a single OpenBSD, CDROM-based system
- Provide local network resources: WIFI, WWW, SSH, Remote X, VNC, SMTP, POP(S), IMAP(S), NTP, DHCP, IRC, RTSP, Firewalls, IDS/Network/System monitors, Backup, Database, File, and Print services
- Almost no system compromises or virus infections for over three years
- Design and build workstation cloning systems for Linux and NT platforms
- Presented basic and advanced Unix training sessions for faculty, staff, and students
- Overhaul web site: design graphics, convert to dynamic content with templating, convert to update by students, faculty and staff without need for webmaster intervention
- Author data-driven departmental web-based applications
- Assisted in application of parallel processing techniques to problems in global optimization using interval arithmetic

Information Systems Administrator
Ithaca, New York

Cornell University Facilities Management
1995 - 2001

- Established a new position and unit to administer computing resources for all departments
- Provide desktop support for approximately 100 Macintosh and Windows NT/2000 workstations located throughout campus
- Maintain up 10 Windows NT, 2000, Linux, and BSD Unix servers for 6 large departments
- Operated several of the first Linux servers and workstations on campus
- Converted all workstations from Macintosh to Windows platform
- Administer approximately 200 user accounts for Windows NT domain
- Coordinate with other network administrators to establish multiple division NT domains
- Build departmental web-based applications

Information Systems Manager
Ithaca, New York

LifeNET, Inc.
1999 - Present

- Engineer and maintain network on dedicated T1 for Linux, Unix server farm
- Author, deploy, and maintain web-based internet applications
- Assist clients with maintenance of their hosted web sites and email

Technical Consultant
Ithaca, New York

Cornell University Grounds Department
1994 - 1995

- Assist with special projects for the Grounds Department
- Computerize Grounds Department annual snow removal plan
- Revised all office procedures to streamline and consolidate information resources

Automation Programmer/Network Administrator
San Jose, California

A C Service and Design
1992 - 1994

- Develop, deploy, and maintain building automation software and systems
- Administer office network and provide desktop support for office staff

Facilities Maintenance Manager
Foster City, California

Krone Enterprises
1986 - 1992

- Oversee equipment and facilities maintenance for 20 Burger King Restaurants
- Install refrigeration systems for new construction
- Perform emergency repairs on building systems and food service equipment

Air Conditioning and Refrigeration Contractor
San Jose, California

Isotherm
1980 - 1986

- Design and supervise new construction and retrofit projects
- Perform repair and maintenance on HVACR equipment
- Supervise all office staff and construction crews
- Built computer systems, authored software to manage all office functions

Professional Skills

- Fluent in: C, C++, perl, python, tcl/Tk, Unix shells, PHP, SQL, DOS batch, HTML, javascript, java
- Author of several applications included in the Familiar Linux distribution for PDA's
- Author of many free and shareware programs, utilities, and libraries, in use worldwide
- Extensive experience in network, OS, and application security testing, tool construction, and design of custom protection architectures

Education

Electronics, Electrical Engineering San Jose, California	San Jose City College 1971 - 1973
Heating, Air Conditioning, Refrigeration, Solar Energy San Jose, California	Refrigeration Service Engineers Society 1975 - 1977
Windows NT Core Technologies Ithaca, New York	Microsoft Corporation October 1999
Windows NT to Windows 2000 Migration Ithaca, New York	Microsoft Corporation October 2000

Community Activities

Computer, Network, and Electronics Consultant Ithaca, New York	Ithaca Community Radio 2002 - Present
<ul style="list-style-type: none">• Design, construct, author software, maintain network for computer interface to control remote FM transmitter audio via secure wireless link of several miles• Interface remote audio equipment to radio station via telephone lines for live mayoral debate• Construct cooling system for remote transmitter site• Provide computer administration	
Computer and Network Consultant Ithaca, New York	Child Abuse Prevention Network 1998 - Present
<ul style="list-style-type: none">• Develop custom web applications and software tools• Maintain network infrastructure and servers for several internet domains• Interfaced conference cross-country satellite downlink to multimedia stream for live and archival web access	
Computer and Network Consultant San Diego, California	Child Abuse Prevention Conference February 2003
<ul style="list-style-type: none">• Configure computers, manage internet access, assist with applications• Technical advisor for global research database project	
Author and Technical Consultant International	Online Training on Abuse and Disabilities 1996 - Present
<ul style="list-style-type: none">• Develop interactive training program for professionals in the field of child abuse prevention• Maintain network infrastructure and servers to provide ongoing training• System in continuous operation for over ten years	
Author and Technical Consultant National	Child Abuse Prevention Monthly Statistical Report System 2006 - Present
<ul style="list-style-type: none">• Develop internet-based statistical reporting system for national organization• Maintain network infrastructure and servers to provide continuous service	