Thorsten Lockert
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TECHNICAL KNOWLEDGE

- Operating systems: Linux, BSD, Windows, MacOS, QNX, VMS
- Programming languages: C, C++, Objective-C, Swift, Python, Javascript
- Database systems: MySQL, PostgreSQL, Oracle
- Voice over IP: Asterisk, SIP Express Router, Cisco

SPECIFIC EXPERTISE

- Taught BASIC programming, Pascal programming and computer technology classes to high school level students
- Worked as systems consultant, Unix installation and software development
- Functioned as system and network administrator on Unix, Windows 95, Windows NT and VMS systems, software installation and maintenance, user and network administration, including securing networks and services
- Network, zone and administrative contact for internet domains and networks
- Designed and implemented a conferencing system running under QNX and UNIX
- Designed and set up communication solutions using modems, X.25 network and TCP/IP, including Virtual Private Networks using PPTP
- Configured and maintained Cisco, Livingston and SubSpace routers
- High-speed wireless IP routers
- Secure, redundant firewalls
- Highly available databases
- Voice over IP telephony systems

LANGUAGES

- Norwegian, English, Swedish, Danish

CAREER HISTORY

CTO — DoctorCom, Inc., Redwood City, CA
Feb. 2013 to Apr. 2014

- Manage infrastructure on AWS
  - User-facing Web Services
  - MySQL Databases

- REST services
- Manage software development team
  - Django-based web application
  - Android application
- Maintain and extend iOS application

Software Development & System Administration Manager — Tzec Maun Foundation, Palo Alto, CA

May 2010 to current

- Develop and manage the overall software development plan
- Programming and/or supervision of programming related to the one meter scope, web sites, small scopes, Linux and Mac servers, and any other software-driven projects
- Install and maintain observatory data center
- Provide optimization for key database and programming projects
- Develop strategic plan for hardware and software
- Develop back-end and middleware for key services, such as online astrometry, chart servers, image processing, etc.
- Manage process of observatory automation

Sr. System Administrator — Makena Technologies, Inc., Redwood City, CA

Oct. 2009 to Apr. 2010

- There.com
  - Maintain cluster
- Corporate
  - Plan and execute corporate e-mail transition to Google Apps

President,
CEO — Voop USA, Inc., Los Gatos, CA

Jan. 2007 to Sep. 2009

- Build security solutions
  - Implemented a security product "Net/X"
  - Implemented a security product "Amber"
- Set up complete office infrastructure
  - Set up VMware Infrastructure server
  - Set up CentOS and OpenBSD build environments
  - Set up Asterisk-based office PBX

Vice President, R&D,
Chairman of the Board — Voop AS, Bergen, Norway

Aug. 2003 to Dec. 2006

- Build VoIP solution
  - Evaluated Open Source and proprietary VoIP solutions
  - Set up a backbone switching network based on Asterisk PBX and SIP Express Router
  - Maintain production-class builds of Asterisk, SIP Express Router and other software for Fedora Core and CentOS

- Set up production sites
  - Build flashable images for redundant firewalls based on OpenBSD
  - Build Fedora Core-based back-end systems to run Asterisk PBX and MySQL RDBMS
  - Build CentOS-based back-end systems to run Asterisk PBX and MySQL RDBMS
- Design and implement new solutions
  - Designed and prototyped security product Net/X

Sabattical — Blue Moon Adventures, LLC, Houston, Texas
Apr. 2003 to Jul. 2003

Principal Consultant — eBay Inc., San Jose, CA
Aug. 2001 to Mar. 2002

- Member of Site Services group
  - Evaluated Application Server platforms
  - Implemented a scalable search solution tailored for auctions

Principal Consultant — eBay Inc., San Jose, CA
Aug. 1999 to Jul. 2001

- Member of Architecture R&D group
  - Recommend scalable solutions for continued growth
  - Evaluate HP and IBM S/390-based solutions
  - Moved batch jobs from an Oracle / Solaris environment to DB2 on S/390 as proof of concept
  - Moved web application from ISAPI on NT to an Apache module on Unix as proof of concept

Principal Consultant — eBay Inc., San Jose, CA
Dec. 1998 to Jul. 1999

- Manage network group
  - Hire and train network administration staff
  - Implement multiple redundant DS3 and OC3 connections
  - Set up full BGP routing with Internet Service Providers
- Support systems administrations staff
  - Evaluate and recommend front-end caching solutions
  - Evaluate and recommend alternate load balancing solution
  - Support upgrade of database backend system from E6500 to E10000
  - Plan storage solution that lends itself to scalability and easy replication
- Manage growth
  - Plan system capacity to handle 30% month-to-month sustained growth
  - Install additional E10000 systems
  - Provide support for creating failover solutions

Principal Systems Administrator — eBay Inc., San Jose, CA
Jun. 1998 to Nov. 1998

- Administer network
    - Manage multiple connections to various service providers
    - Set up BGP routing and load balancing
    - Configure redundant switches and routers using Cisco HSRP
- Maintain backend servers
    - Migrate high-volume mail systems to qmail on Solaris servers
    - Upgrade database server from Sun E4500 to E6500
    - Design storage and backup solution to accomodate growth
- Maintain frontend servers
    - Oversee growth of NT based front-end servers
    - Test alternate load balancing solutions
    - Evaluate other web servers
    - Install E10000 system for search functionality

Sr. System Administrator — eBay Inc., San Jose, CA
Aug. 1997 to May 1998

- Administer local network
    - Set up and maintain Microsoft Proxy Server for firewall and proxy
    - Set up and administer Microsoft Exchange server for corporate and Internet Mail
- Administer public database and WWW servers
    - Install and secure Solaris 2.x Enterprise servers with Oracle 7 Server
    - Install and secure Windows NT 4.0 Servers with Microsoft IIS 3.0 and 4.0

Director, Network Operations — TAL Wireless Networks, Sunnyvale, CA
Aug. 1994 to Jul. 1997

- Administer local network
    - Setting up and configuring Cisco and Livingston routers on leased and Frame Relay T1 and 56K circuits
    - Evaluating and installing new software and hardware
    - Manage SunOS 4 and Solaris 2.3 systems
    - Set up CAP for Macintosh services on local network
    - Set up SAMBA for Windows for Workgroups and Windows 95 services on local network
    - Evaluate commercial and free SNMP packages
    - Set up and manage Windows NT and Microsoft Exchange Server
    - Install BSD/OS, NetBSD and OpenBSD systems for use as firewalls, mail, FTP and WWW servers
- Administer TCP/IP-based radio network
    - Configure and set up networking software on radio routers
    - Performance testing of radio network
    - Network management using SNMPc, HP OpenView, tkined/scotty and other software
- Software engineering
    - Develop SNMP utilities to manage network routers
    - Maintain and extend SNMP Agent for wireless routers

- Develop benchmark utilities for testing of wireless routers
- Validate software builds on wireless routers
- MS-DOS device driver to redirect console input and output to a serial port, fully interrupt driven

Consultant — SigmaSoft, Th. Lockert (self employed)
Mar. 1994 to Jul. 1994

- Consulting
  - Contract programming for Bergen By Byte as

Systems Consultant — Bergen By Byte as, Bergen, Norway
Oct. 1989 to Feb. 1994

- Administer and maintain mixed protocol network environment serving approximately 2500 users
  - Assigning accounts and instructing in use of network
  - Evaluating and installing new software/hardware
  - Technical troubleshooting
  - Managing nameserver for two domains on the Internet
  - Assigning addresses in TCP/IP and DECnet address space
  - Setting up and maintaining PathWORKS for DOS and for Mac on both VAX and Ultrix platforms
  - Setting up and maintaining DEC P.S.I. on VAX and DECstation
  - Setting up and maintaining news and email both on Ultrix, VAX/VMS and the conferencing system
  - Network, zone and administrative contact for BBB.NO and SigmaSoft.COM domains
  - Configuring TCP/IP using MultiNet and UCX on VAXen
  - Configuring routing and protocol options on Cisco IGS gateways
  - System administration on DECstations and VAXen running Ultrix and VMS
- Software porting and development
  - Porting earlier developed conferencing system (BBB/CS) to run under Ultrix 4.x. Most of the work stemmed from switching to using News for message storage and forwarding. Internal databases are handled with the c-tree product from FairCom, Inc.
  - Wrote an X.29 PAD for Ultrix to communicate with DEC P.S.I. for handling incoming X.25/X.29 calls to the system
  - Application on Ultrix to query a VAX/Rdb database for environmental information using SQL, developed in cooperation with the university in Bergen
  - Specialized application querying the same database and communicating with a Windows application developed in-house for querying the database from remote sites over modem and X.25 links
  - Document retrieval system for use on oil drilling rigs in the North Sea, using WordPerfect documents and TIFF images
- Consulting
  - Programming help with laboratory software written in C for use at the local university hospital lab to register, tag and bill samples sent to the lab from departments and other medical institutions
  - Installation and maintenance of SCO Unix systems in networked environments including salary systems at the Norwegian School of Business and Economics and a system to run the laboratory software mentioned above
  - Teaching Unix system administration on SCO Unix systems
  - Installing and configuring Gopher and WWW servers under AU/X for IATAFI, a UN sponsored organization

Systems Consultant — SigmaSoft, Th. Lockert (self employed)
Aug. 1988 to Sep. 1989

- Software development
  - Simple multi-user adventure game running on a QNX system
  - Misc. MS Windows programs
  - Database system for registration of car alarm systems installed at service garages
- Consulting
  - Contract programming at the Norwegian School of Business and Economics on VAX/VMS systems porting online databases with OECD and UN provided information from Fortran on TOPS-20 to C on VAX/VMS

Systems Consultant — Bergen By Byte as, Bergen, Norway
Aug. 1987 to Jul. 1988

- Software development
  - Designed and implemented a conferencing system running under QNX. The system has since then been sold to two sites in Germany as well as schools and universities in Norway
  - Debugged X.25 communication software (not developed in-house) in use on the same QNX system

Consultant — Bruktbilforum as, Vikedal, Norway
Feb. 1987 to Jul. 1987

- Software development
  - Designed and implemented a ZIM database application for accepting, registering and sending advertisements to a typesetter, ready to print in newspapers

Consultant — SigmaSoft, Th. Lockert (self employed)
Dec. 1986 to Jan. 1987

- Contract work
  - Designed and implemented a simple bulletin board system for multi-user access on IBM PC-compatibles

Teacher — Royal Norwegian Navy, Bergen, Norway (compulsory service)
Aug. 1986 to Nov. 1986

- Teaching position at the naval base in Bergen
  - Taught administrative routines to naval officers
  - Gave computer lessons to naval officers on how to use internal naval systems

Programmer — Royal Norwegian Navy, Tromsø, Norway (compulsory service)
Oct. 1985 to Jul. 1986

- Software development
  - Designed and implemented software for keeping track of supplies to be delivered to naval vessels using Turbo Pascal on CP/M 80

Programmer — ADB Consult as, Bergen, Norway
Feb. 1982 to Sep. 1985

- Software development and maintenance
  - Maintained accounting software written in Commodore BASIC and 6502 assembly running on Commodore PET machines
  - Design and implementation of software for registering orders, integration with above accounting system

- Maintained salary software written in Commodore BASIC and 6502 assembly running on Commodore PET machines

OTHER ACTIVITIES

Maintainer — OpenBSD

Mar. 1993 to Jul. 2006

- Maintained various portions of OpenBSD