

Objective: A position of software developer, UNIX/Linux system administrator within physics community.

Background: Ten years in physics community (4 HEP experiments, 2 theoretical groups).
Eight years of experience in UNIX, Windows and low-level networking environments. Performed administration, installation, configuration, programming and troubleshooting.

Technical skills:

Computer Hardware:

IBM PC, DEC/Alpha, SUN, SGI workstations, X-terminals, Exabyte backup systems.

OS/Environment:

Linux: RedHat 4.x-7.x, Slackware
FreeBSD: v3.5
SGI: IRIX 6.5
DEC/Alpha: OSF/1
SUN: SunOS v4.1.4.1, Solaris v5.5.1
CDE 1.1, FWMN, KDE/GNOME-desktops.

Network hardware and protocols:

Ethernet, PPP over Dialup, TCP/IP, NFS, FTP, DNS, NIS.

Software:

languages: C/C++, Python, Fortran, basic knowledge of Java.
scripting: Born and C shells (sh, csh, tesh), awk, sed, Tcl/Tk.
security: tripwire, SSH, Nmap, Nessus, port filtering firewalls, PAM authentication scheme.
miscellaneous: GNU development software, RPM software packaging, CVS revision control system, debuggers (gdb, dbx, DDD, TotalView), GUI (OnX based on Motif), VMware, Office Suites (Microsoft, Star Office, Applix).

Tasks and procedures:

system and maintenance planning, installation and documentation;
kernel installation and tuning;
building, installing and remotely deploying software;
planing and implementing system security;
shell programming;
backup planning and management;

Certificates:



issued by www.brainbench.com, see [transcript #157359](#)

Experience:

1993-1998	1998-1999	June 1999-till present time
JINR , Russia and CERN , Switzerland	CERN , Switzerland	Fermilab , USA
NOMAD experiment C, Fortran programming, sys. administration, shell programming.	NOMAD-STAR experiment Leader of software group, C programming, sys. administration.	D0 experiment Co-leader of D0 global tracking group. C++/Python programming, sys. administration.

Linux, SunOS, Solaris, OSF/1	Linux, SunOS, Solaris, OSF/1	Linux, IRIX
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Time table

June 1999 -- present time: Employed by Univ. of California at Riverside for [D0 experiment](#) at Fermilab, USA.

Project description:

Development of the off-line software (tracking system).

Environment:

C++/Python languages, SGI IRIX 6.5 and Linux/RedHat 5.x/6.x clusters.

Responsibility:

Co-leader of [D0 global tracking group](#).

C++ software developer and system administrator/manager for UCR group.

UNIX administration/management: support/management of 13 individual software packages, installation and support of D0 software on Linux/RedHat 6.x/7.x, system backup and management for UCR group.

System administrator of [ClueD0 cluster](#).

Feb. 1998 -- Feb. 1999: Employed by CERN, Geneva, Switzerland for [NOMAD-STAR experiment](#).

Project description:

Development of the reconstruction software and data management for NOMAD-STAR experiment.

Environment:

C language, DEC/Alpha OSF/1 cluster, Linux/RedHat 4.x farm, GNU software.

Responsibility:

Leader of software development group.

C language software developer for NOMAD-STAR experiment.

UNIX administration/management: data backup and management, user account management, support and transfer of NOMAD software from DEC OSF/1 to Linux.

Support of NOMAD-STAR web-pages as a web master.

Miscellaneous activities: designing and managing of NOMAD-STAR software, CVS management, on/off-line support, GUI Motif based interface development, troubleshooting.

May 1995 -- Feb. 1998: Employed by JINR, Dubna Russia and CERN (part-time), Geneva Switzerland for [NOMAD experiment](#).

Project description:

Development of the reconstruction software, data analyse and software management for NOMAD experiment.

Environment:

C language, DEC/Alpha OSF/1, SunOS (v4.1.4.1), Solaris (SunOS v5.5.1) clusters, Linux/Slackware, GNU software.

Responsibility:

NOMAD tracking software development.

UNIX administration/management: CVS management, data management, troubleshooting, auto transfer of NOMAD software between CERN and JINR, system backup and user account management.

Dec. 1993 -- May 1998: Employed by JINR, Dubna, Russia.

Project description:

Scientific research for Joint Institute of Nuclear Research (JINR).

Environment:

C/Fortran languages, SunOS, Linux/Slackware, Windows 3.1/95.

Responsibility:

Scientific calculations and Monte Carlo simulations (C/Fortran).

UNIX administrator (part-time) for Linux/Slackware. Network installation and configuration using NFS and Samba [SunOS, Linux, Windows].

Education: **August 1999:** Object-Oriented Design and Programming in C++, by Glenn P. Downing Univ. Texas at Austin, Fermilab training, IL, USA.

July 1999: Fast Track to Objects, by ISS Inc. Schaumburg, Fermilab training, IL. Object-Oriented Analysis and Design using UML, by Objective Engineering Inc., Fermilab training, IL, USA.

May 1999: Ph.D. in Physics, Dubna, JINR, Russia.

June 1993: M. Sc. in Physics, Irkutsk State Univ., Russia.

**Administration,
management:**

Skillful organizer with experience in long-term research projects.
Experience of work as a member of large (over 500 people), small and international teams.
Familiar with handling of research grants and purchasing of equipment.
Day-by-day advice and leadership of students.

Personal:

Languages: Russian, English, French (basic).
Self-motivating with good communication and interpersonal skills.
Fast learner in programming languages.
26 physics and 2 software publications. A complete list is available upon request.

I am currently employed under the conditions of J-1 visa (however I'm in transition to H1B visa status, approval has been received).

Contact: By mail:

MS-352, P.O.Box 500,
Fermilab, Batavia, IL, 60540, USA.
Tel: (630)-428-9872
Fax: (630)-840-8886

By email vkuznet@fnal.gov

URL <http://www-d0.fnal.gov/~vkuznet/>