Personal details

Name Nationality Residence Phone Email

Alexis Huxley British & German Munich, Germany +49 (0)160 2022 469 alexishuxley@gmail.com

Key skills

- sysadmin, scripting, C
- tool development, build management, software packaging
- Subversion, Jira, make
- quality documentation
- deep and broad Unix knowledge

Professional experience

Employer Role Dates Max Planck Computing and Data Facility, Munich Compute (not Computer) System administrator

ates | Jun 15 - present

Responsibilities

- installation, development, maintenance and support of Slurm- and SGE-based compute clusters
- further development of the opensource Grid Engine Software SGE (e.g. adding support for formula-based "load formula" using lex and yacc)
- scripting (mostly Python)

Employer Role Dates Terma GmbH, on site at ESO, Munich

System administrator

Sep 09 - May 15

Responsibilities

Maintaining ESO's data archive systems and operational systems, supporting its users, developing its operational infrastructure. Tasks include:

- monitoring (writing check and event handler scripts for Nagios and ad-hoc cron-based monitoring)
- development of automated operating system (OS) installation tools (mkkickstart)
- provision of next-generation QC processing computer and storage systems
- support to junior staff members (with emphasis on documentation, standardisation, version control, scripting)
- all the usual system administration tasks (installations, change requests, problem solving, liaising with users/managers/vendors/consultants, DNS/NFS/NIS management, etc.)

Employer Role Dates DCS GmbH, on site at ESO, Munich

System administrator

Feb 07 - Sep 09

Responsibilities

Maintaining ESO's general IT systems, supporting its users, developing its infrastructure. Tasks included:

- analysis/design/implementation of site-wide IT infrastructure projects (Linux desktop and server roll-out, virtualisation, replicated Subversion services)
- Unix support for scientific projects (advice to developers using Unix environments regarding C programming, Unix tools, scripting)
- storage management (NetApp administration, data migrations, storage forecasting)
- release management and testing (SciSoft VI [1], MkKickStart)
- all the usual sysadmin tasks (installations, change requests, problem solving, liaising with users/managers/consultants, DNS/NFS/NIS management, etc)
- programming ("Manhatten2" real-time control system for VLTI project)

Employer Role

Terma GmbH, on site at ESO, Munich

Unix projects engineer

Dates Oct 06 - Feb 07

Responsibilities Recruited to as

Recruited to assist ESO with several IT projects for which skills were missing or manpower

was unavailable. Tasks included:

- assistance with preparation of CMM to SVN migration
- C programming ("Manhatten2" real-time control system for VLTI project)
- end-to-end email system monitoring

Employer

Siemens Business Services, Wien, Austria

Role

System administrator Apr 06 - Oct 06

Dates

Tasks included: Responsibilities

- all the usual system administration tasks on customer Linux systems
- project work (e.g. replacement of department's unmaintainable HTML documentation with a wiki and transfer of content, introduction of Subversion repository on SAN storage)

Employer

Terma GmbH, on site at ESO, Munich

Role

System administrator

Dates Responsibilities Apr 05 - Apr 06 as Feb 07 - Sep 09

Employer Role ESO, Munich System administrator and embedded systems programmer

Dates

Apr 99 - Feb 05

Responsibilities

- Tasks included: development of various tools for developers (e.g. PECS, RtdScope, tacCompile)
- development real-time control software for VLTI (e.g. for M16, M10, image alignment, Variable Curvature Mirror mounted in delay line trains)
- development of functional test suite for VLTI ("vlticmtests")
- first line Unix support to division software developers (division VLT, later TEC)
- developer support for C, Unix, shell and Perl programming
- management of ESO's VLT project base software on development systems (VxWorks, GNU tools, RTAP)

Non-professional experience

Project Details

Subversion [2], Debian [3], Ganglia [4], MoinMoin [5]

I have contributed patches, bug reports and assistance to new users on several large open

source projects.

Project

ADE [6], [12]

Details

I have written a development and regression test environment for shell and Perl scripts. This environment has been used to rapidly develop and test several other projects (e.g. FAD security tool, PAA software repository management tool).

Project

PAA [7]

Details

I have developed a tool for freezing and auditing original and mirrored repositories in production environments.

Selected publications

Article Paper Alexis Huxley, "Managing Software Repositories in Production Environments" [8] Bertrand Bauvir, Anders Wallander, Philippe Duhoux, Alexis Huxley and Robert Karban, "Designing a common real-time controller for VLT applications", Proceedings SPIE 5496, 155 (2004)

Article Manual Alexis Huxley, "Program and Package Development Cycles" [9] Alexis Huxley, Stefan Wehner, "RtdScope User Manual" [10] Alexis Huxley, "Debian Squeeze RAID1 and GRUB2" [11]

ArtIcle IT skills

Languages

- Shell (expert, daily use for 30 years)
- Perl (expert, daily use for 20 years)

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Alexis Huxley Curriculum Vitae

• C (expert, daily use for 13 years, ~300k lines of code, including 85k at ESO) SQL (intermediate, sporadic use, 20 years) • Python (expert, weekly use, 7 years) • Linux (expert, daily use for 25 years, primarily RedHat clones, Debian) Operating systems Solaris/SunOS (expert, 25 years) • HP-UX (expert, 12 years) BSD derivatives (8 years) • Make (expert, > 20 years, regular use) General tools Subversion (expert, patch contributor, 11 years, regular use) • Jira (administrator, 1 year, regular use) Microsoft Office Suite (>20 years, regular use) Dell PowerEdge series servers Hardware • Sun (X4100, ...) servers • HP 9000 series servers NetApp filers Fujitsu and Sun SANs Phases software requirement definition (2 years), architectural design (15 years), detailed development (20 years), • test, integration, and handover (10 years) Support (10 years) Standards ITIL Foundation Certificate in IT Services Management Education BSc applied maths (Hons) Warwick University Degree various Oracle SQL courses (SQL-Plus, SQL*Forms, SQL*Reporter, ...) Training Lustre Filesystem (Sep 09) Training Training Linux High Availability with Pacemaker (Oct 11) Training/Examinati ITIL v3 2011 Foundation (Oct 12) on English German (B1), Slovak (~B1)

Languages

Fluent Intermediate

References

Anders Wallander, ITER, anders.wallander@iter.org Søren Baumann, Terma GmbH, srb@terma.com

Links

 $\underline{\texttt{http://www.eso.org/sci/publications/messenger/archive/no.123-mar06/messenger-no123-69-69.pdf}$ [2] [3] http://svnbook.red-bean.com/en/1.5/svn-book.html#svn.preface.acks http://tinyurl.com/ahuxley-debian-bug-reports https://github.com/alexishuxley/gmond_python_modules/tree/master/nfsstats [5] [6] http://moinmo.in/MacroMarket#Release 1.5 https://www.pasta.freemyip.com/computing/software/ade/ [7] [8] https://www.pasta.freemyip.com/computing/software/paa/ $\underline{https://www.pasta.freemyip.com/computing/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositories-in-production-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-environments/articles/managing-software-repositor-enviro$ [9] $\label{lem:https://www.pasta.freemyip.com/computing/articles/program-and-debian-package-development-cycles/ftp://ftp.eso.org/ftp/vlt/vlt/pub/releases/VLT2009/vol-2a/VLT-MAN-ESO-17210-3525.pdf$ [11] https://www.pasta.freemyip.com/computing/articles/debian-squeeze-raid1-and-grub2/ https://www.pasta.freemyip.com/computing/software/ade/adetest1/

Notice period

4 weeks, from the beginning or middle of the month.