

“ I strive to solve interesting problems. I like to find robust and flexible instead of 'it's working' solutions. I love agile and dynamic environments, and I feel at ~ working with various Linux distributions. I used Python to automate routine System Administration on 1000's of Machines, monitor failure and have fun orchestrating all these computers with simple and clean scripts. In addition, I have experience working multiple Python and Java projects in diverse environments (UI, Backend and Frontend, testing). ”

PROFESSIONAL EXPERIENCE

Lead DevOps + Data Engineer *Plan-Net GmbH*

August 2014 - Current

- Lead migration from Subversion to Git
- Develop ETL jobs in python python-pandas and multiple other python libraries.
- Develop extraction jobs from MongoDB to tableau using C and Python APIs.
- Maintain a cluster of multiple mongodb replication and shard nodes.
- Maintain all Linux hosts with salt-stack, network architecture plan and execution. Deploy all hosts, maintain firewalls, openvpn, and everything needed to guarantee continuous rolling of ETL jobs needed for the daily business.
- Implement web interfaces for reporting using python-flask and javascript.

MongoDB Python Pandas NoSQL Tableau OpenVZ flask saltstack ipython git big-data

Backend Developer *Agnitas AG*

May 2014 - August 2014

Backend development of a high traffic E-Mail marketing SaaS.

- Develop internal tools using flask and sqlalchemy automate work flows.
- Extend continuous integration and introduce automated Selenium driven testing.
- Standardization of code packages, setuptools, coverage.py, code analysis & review.
- Manage work flows with Jira.
- Write sphinx documentation for python libraries developed in-house

MySQL linux flask big-data svn oracle git-svn bash unit-testing shell salt-stack redhat python

My tasks as Software Engineer were:

- Develop different custom software solution for internal customers and external customers.
- Develop eclipse plug-ins that are part of OpenMDM project.
- Develop a Django front end for managing multiple user accounts in LDAP and Active Directory.
- Implement back-end scripts to synchronize AD user accounts and LDAP accounts.
- Setup and configure OpenLDAP.
- Work on multiple Django projects.
- Contribute to PDMCAE (Data management software in BMW written in C, C++, Perl, PSQL)

Django Java SQL LDAP AD JIRA OpenMDM Eclipse GIT MS Visual Studio Make C/C++

My tasks as System Engineer were:

- Install and Configure Windows and Linux (Red Hat 5,6 and CentOS) Workstations.
- Install and Configure HPC Clusters.
- Scripting: BASH, Python and Perl.
- Backup tool: TSM Client\Server support (On Windows and Linux).
- Hardware and Software RAID configuration.
- Monitoring (Nagios\RRDtool) Queuing systems (Sun Grid Engine\In house queuing system).
- Windows\Linux sharing (CIFS & SAMBA).
- 2nd level support for Engineers using CAE\CAD software.
- Install and configure MySQL databases.
- Install and configure SAN such as AutoFS , AMD and Windows DFS.
- Maintain LDAP servers.
- Actively responsible for packaging software in RPM, DEB and other packaging format.
- Responsible for as much as 5000 computers (Workstations and cluster nodes) for renowned customers such Daimler, Porsche and BMW.

SAMBA Red Hat Windows NFS Python Shell MySQL Perl

Scientific Programmer *Uni. British Columbia, Vancouver.*

May, 2010 - Oct., 2010

- Implement a sequential version of a reactive transport model (Ground water flow + Chemical reactions) using an existing large and complex Fortran code.
- Write a collection of Python scripts: to submit jobs on different cluster hosts with different input files, to process the results and visualize them.
- The results of the code work and benchmarking comparing to previous versions were submitted as M.Sc thesis.

Fortran95 Makefile GCC Python L^AT_EX

System Administrator, Python Programmer *Uni. Tübingen, Germany*

Oct. 2008 - April 2010

- Install and configure home brewed 2 Debian clusters with 20 compute nodes.
- Setup Subversion & Trac servers.
- Implement Python application to process GIS data and visualize the results (see below MMSPy).
- Maintain firewalls to the Clusters and the TRAC server.

Debian Trac Subversion Python GDAL GIS IPTables PfSense

System Administrator *Rankabov, Israel*

April, 2008 - August, 2008

- Configuration management of Windows, OSX desktops and Ubuntu/Debian Servers.
- Install and maintain Bugzilla for our clients.
- Package software (DEB format) for deployment.

Debian Packaging Bugzilla Ubuntu Shell Python OSX Windows

EDUCATION

M. Sc. Applied Env. Geosciences *Universität Tübingen, Germany*

October 2008 - October 2010

Thesis Title:

Implementation of Sequential Non Iterative approach in MIN3P reactive transport code and comparison of Global Implicit Method, final GPA 1.6.

B.Sc. Geology *Hebrew University, Jerusalem*

October, 2003 - March, 2008

B.Sc. Final GPA 88/100.

RECENT OPEN SOURCE PROJECTS & CONTRIBUTIONS

Pwman3: Console based password management application with multiple databases support.

Libraries and tools used: Python, SQLite, MySQL, PostgreSQL, MongoDB

<https://github.com/pwman3/pwman3>

python-nvd3: A Jinja2 based wrapper for nvd3 javascript for use in Python. I am a Co-Maintainer

Libraries and tools used: Python+JavaScript, IPython, NVD3, Jinja2.

<https://github.com/areski/python-nvd3>

log4mongo-python: A python logging handler that emits messages to MongoDB. I am a Co-Maintainer

Libraries and tools used: Python, MongoDB python driver

<https://github.com/log4mongo/log4mongo-python>

LANGUAGE SKILLS

Mother language: Hebrew.

| | | | | |
|-------------------|---------------|---------|----------|---------|
| Other languages*: | Understanding | | Speaking | Writing |
| | Listening | Reading | | |
| English | C2 | C2 | C2 | C2 |
| German | C2 | C2 | C2 | C2 |

* Evaluation according to Common European Framework of Reference (CEF).

DRIVING LICENSE

PKW, Private Auto, Class B.

WORK PERMIT

Permanent German Residence.

Eligible to work and live in Canada.

SKILLS MATRIX

Level of skill:

6. I could write a book about it.
5. Used in multiple projects, contributed bug reports, submitted patches.
4. Have done more than 3 projects, involving more than 8000 line of code.
3. Used in production, worked on a few small scale projects.
2. Have done single small scale project, used it occasionally.
1. Took a course in the university, read a single book.

Scripting\Dynamic Languages

| Language | Skill Level |
|------------|-------------|
| Python | 5 |
| BASH | 4 |
| JavaScript | 4 |
| Perl | 2 |
| PHP | 2 |

Compiled Languages

| | |
|---------|---|
| JAVA | 4 |
| C | 3 |
| C++ | 2 |
| Fortran | 2 |
| Pascal | 1 |

Markup & Web

| | |
|------------------|---|
| LATEX | 5 |
| HTML | 3 |
| CSS | 2 |
| MARKDOWN | 5 |
| reStructuredText | 3 |

Operating Systems

| OS | Skill Level |
|---------|-------------|
| RHEL | 5 |
| Debian | 5 |
| SuSE | 4 |
| Windows | 3 |
| Gentoo | 2 |
| FreeBSD | 2 |
| OS X | 2 |

Python Frameworks & Development tools

| | |
|----------|---|
| Django | 4 |
| Salt | 3 |
| Flask | 3 |
| Selenium | 3 |
| Git | 5 |
| SVN | 2 |
| Make | 3 |

Databases

| DB | Skill Level |
|------------|-------------|
| MongoDB | 4 |
| MySQL | 3 |
| SQLite | 3 |
| PostgreSQL | 2 |
| Oracle | 1 |