Oz Nahum Tiram, M.Sc.

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> “I strive to solve interesting problems. I like to find solutions which don’t hunt you down two months later, because you wanted some patchy solution that just works. That’s exactly why I wanted to start programming and why I use Linux. For me programming started as a way to process my data and do my university assignments in a faster way, so I could avoid the endless mouse clicks. These days I use programming to automate routine System Administration on 1000’s of Machines, monitor failure and have fun orchestrating all these computers with simple and clean scripts.”

Professional Experience

Software Solutions Engineer *Science+Computing AG* January 2013 - Current

- Develop custom solutions for heterogenous environements (Windows+Linux).
- Write OpenMDM plugins (JAVA, Eclipse based Framework).
- Develop Web based (Django) administration interfaces for OpenLDAP+AD.

Django Java SQL LDAP AD JIRA OpenMDM Eclipse

System Engineer *Science+Computing AG* January 2011 - January 2013

- 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 written in Python).
- 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 and AMD.
- 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 LaTeX

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 blow MMSPy).
- Maintain firewalls to the Clusters and the TRAC server.

Debian Trac Subversion Python GDAL GIS IPTables PfSense

System Administrator *Rankabove, 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.

Computer Skills Summary

Programming Languages: Python, Matlab\Octave, BASH, Perl, R, JAVA, LaTeX, C and FORTRAN
Applications: git, Subversion, ArcGIS, QGIS, MapServer.
Operating Systems: Red Hat\Debian, *BSD, AIX, Windows, OSX
Server Side Applications: Apache, MySQL, SAMBA, Subversion, Trac, Apache, IBM Tivoli SM, NFS & AutoFS, BIND, LDAP\NIS.
Configuration Management & Monitoring: Salt-Stack, Chef, Fabric, Nagios. **Virtualization**: KVM, Qemu, VMware, VirtualBox.

Open Source Projects

MMSPy: Remediation and Planning Conflict analysis algorithm developed in Python using GDAL.
Libraries and tools used: Python, NumPy SciPy, Matplotlib, GDAL. `https://github.com/oz123/mmspy`

Pwman3: Console based password management application

Libraries and tools used: Python, SQLite, MySQL. https://github.com/pwman3/pwman3

Honors and Awards

$4000 U. of British Columbia, Department Earth Ocean Sciences, M. Sc. Research.	**2010**
$1000 Hebrew U., Prochter Foundation M. Sc. Research.	**2008**
$2000 Hebrew U., Academy-Community Partnership for Social Change.	**2007**
Honored Graduate of the Federman School of Public Policy.	**2007**
Representative for Intel Science and Engineering Fair (Detroit, MI, USA)	**2000**
Representative for Israel, Europe's Young Scientists Fair (Thessaloniki, Greece)	**1999**
2^{nd} Place, Israel's Young Scientists Contest.	**1999**

Language Skills

Mother language: Hebrew.

Other languages*:	Understanding		Speaking	Writing
	Listening	Reading		
English	C2	C2	C2	C2
German	C1	C1	C1	C1

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

Driving License

PKW, Private Auto, Class B.

Work Permit

Eligible to work and live in Germany and in Canada.