

# 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

### System Engineer *Science+Computing AG*

January 2011 - Current

- 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 L<sup>A</sup>T<sub>E</sub>X

## 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

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.*

## COMPUTER SKILLS SUMMARY

**Programming Languages:** Python, Matlab\Octave, BASH, Perl, R, JAVA, L<sup>A</sup>T<sub>E</sub>X, 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.

## 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<sup>nd</sup> 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	B2

\* 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.