

Oz Tiram

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Eligible to work EU wide | <https://github.com/oz123/>

PROFESSIONAL SUMMARY

Seasoned Tech Lead and Software Architect with over half a decade of experience in Kubernetes and Golang. An early adopter of Kubernetes and contributor, I helped develop multiple platforms built on top of Kubernetes.

A passionate open-source contributor, contributed to both large & small projects - including Python, Django, and Kubernetes. Hands-on with programming, infrastructure and Observability stacks, using tools like Grafana and Prometheus to empower teams with actionable Insights.

PROFESSIONAL EXPERIENCE

Lead Software Engineer,
Symrise AG

Holzminden, Germany (Remote)
March 2021 - Present

Data Platform - Python, Redis, AMQP, MongoDB, Docker, Kubernetes

- Lead the development of the data platform.
- Maintain infrastructure and data platform operations.
- Improve code coverage, build a CI CD pipeline using Gitlab CICD.
- Increase application availability to 99.995% uptime.
- Manage and maintain MongoDB clusters.
- Hire and train a team of 2 developers.

Principal Software Consultant,
Spectro Cloud Inc.

San Jose, CA (Remote)
June 2022-Mar 2024

Advanced Project Team - Python, Go, Kubernetes, AWS, vSphere, Azure, Grafana, NATS

- Write Kubernetes Operators in Golang
- Automate the SaaS installer for smooth DevX
- Contribute to KairOS CICD github actions (<https://github.com/kairos-io/>)
- Build and deploy usage SaaS monitoring using Grafana Stack.
- Design and build Kubernetes clusters on Bare Metal, AWS, Azure and vSphere.
- Co-Lead the development of the 2-Node Kubernetes Cluster.
- Develop BI reporting tool using MongoDB, Python and Grafana
- Hire and grow the team from 2 to 5 developers.

Software Developer and Architect,
Self-employed.

Germany (Remote)
March 2020-June 2024

People Team - Python, Go, Kubernetes, Public Speaking, AWS, ML, Bare Metal

- Write a book about Kubernetes Operators in Python and Go.
<https://leanpub.com/the-little-book-of-kubernetes-operators>.
- Provide K8s training and Cloud Native architecture in house and conferences.
- Design and build Kubernetes GPU clusters on Bare Metal and AWS. Cut AWS cost from 1 Million Euro per year to around 200,000 per year by leading a migration to datacenter.

Senior IT Architect
noris network ag

Nürnberg, Germany
March 2018–March 2020

R & D Team - Python, Architecture, Kubernetes, OpenStack, vSphere, Bare Metal

- In-house and customer facing consultant for cloud native technologies.
- Plan and Deploy Kubernetes and OpenShift clusters on OpenStack and VMWare vSphere
- Lead distributed development teams. Hire and grow the team from 2 to 6 developers.
- Lead developer of in house Kubernetes distribution <https://github.com/noris-network/koris>

Lead DevOps Engineer
The Mobility House

Munich, Germany
March 2016–March 2018

Vehicle 2 Grid Team - Python, Go, Kubernetes, Bare Metal, AWS, Grafana, AMQP

- Plan and Deploy Kubernetes clusters on AWS and Bare Metal
- Write Jenkins CI\CD pipelines
- Develop Distrusted Services using Python, Go and RabbitMQ
- Hire and grow the team from 2 to 8 developers.

EDUCATION

- **M.Sc. Applied Env. Geosciences, Universität Tübingen, Germany, Oct. 2008 - Oct. 2010**
Final GPA 1.6.
- **B.Sc. Geology. Hebrew University, Jerusalem, Israel, Oct, 2003 - Mar. 2008**
Final GPA 88/100.

SKILLS

Technical Skills:

- Go 6+ years. Contributed code to Kubernetes, Kairos and others.
 - Python 12+ yeas. Contributed code to CPython, Django, bottle.py and others..
 - AWS 8+ years. GCP 3+ years.
 - Kubernetes 9 years. CKA (completed in 2019).
- For a more detailed breakdown, see table below.

Languages:

- English (Full Proficiency)
- German(Full Proficiency)
- Hebrew (Native)
- Spanish (Basic Proficiency)

Public Speaking, Workshops and Publications

- Kubernetes loves Python, Workshop in EuroPython, Prague, 2023.
- CICD with K8S and Gitlab, DevOps Conference, Berlin, 2021.
- Keynote - 30 Years of Python, Python Summit, Berlin, 2021.
- Designing and Building K8S clusters with kubeadm, DevOps Conference, London, 2020.
- Keynote - Going cloud - German OpenStack days, Berlin, 2019.
- Advanced Flow Control in Python, Python Summit, Berlin, 2018,
- Advanced Flow Control in Python, Python Summit, Berlin, 2019
- Secure Continuous Delivery in Kubernetes Clusters, DevOps Days, Berlin, 2018.
- Building a WSGI framework from scratch, PloneConf, Barcelona, 2017.
- Advanced Python workshop, PloneConf, Boston, 2016.
- Co-Organizer CNCF Meetup Nürnberg.
- [The little book of Kubernetes Operators](#), Leanpub, 2022.

Open Source Contributions

The list is too big to include all ... Non-trivial or interesting ones ...

- [Core maintainer of pipenv.](#)
- Kubernetes documentation, official Python client, [support of OpenRC and more.](#)
- [CoreDNS plugin for getting DNS records from NetBox.](#)
- [Maintain Gentoo ebuilds.](#)
- [bcache-tools: add option to read passphrase from a keyfile.](#)

Older positions

Lead DevOps + Data Engineer

Munich, Germany

Plan-Net GmbH

August 2014–August 2016

- Lead migration from Subversion to Git
- Develop ETL jobs in 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.
- Infrastructure planning and rolling with salt-stack.
- Build Web UIs for reporting using python-flask and JavaScript.
- Manage Windows servers and Tablue installations.
- Hire and mentor junior developers.

Backend Engineer

Munich, Germany

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

Software Engineer

Munich, Germany

Science+Computing AG

May 2013–January 2014

- Develop a Django App for managing multiple user accounts in LDAP and Active Directory with more than 20000 active users.
- Setup and configure OpenLDAP servers.
- Contribute to PDMCAE (Data management software in BMW written in C, C++, Perl, PL\SQL).
- Develop Eclipse plug-ins in Java for the OpenMDM project.
- Develop a Django App for displaying PDF documents in HTML and JavaScript.

System Engineer

Munich, Germany

Science+Computing AG

January 2011–May 2013

- Install and Configure Windows and Linux (Red Hat 5,6 and CentOS) Workstations.
- Automate the upgrade of more than 500 Windows Workstations from Windows 7 to Windows 10.
- Automate the upgrade of more than 500 Linux Workstations from RHEL4 to RHEL5.
- Install and Configure HPC cluster with more than 1000 servers.
- Maintain automation modules with Python and Bash.
- Customer facing 2nd level support for engineers using CAE\CAD software.
- Package and maintain software repositories for Linux distributions using DEB and RPM.
- Install and configure Linux file servers (SAMBA, NFS, AutoFS).

- 2nd level support for engineers using CAE\CAD software.

Scientific Programmer

University of Tübingen

Tübingen, Germany

October 2008 - October 2010

- Install and Configure 2 Beowulf HPC clusters with 20 Debian compute nodes.
- Setup subversion and Trac servers..
- Build Geo Data servers using Python and MapServer.
- Setup identity management and firewalls for the servers.
- Extend existing Fortran programs and contribute modules with new advanced functionality.
- Build a batch job system to submit jobs for the Beowulf cluster using Python.
- M.Sc. thesis in Ground Water modeling using computational methods.

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.

Programming Language	Level
Python	6
JavaScript	5
Go	5
Shell (BASH)	5
C	4

DevOps, Infrastructure	Level
Kubernetes	6
AWS	5
OpenStack	5
Terraform	4
GCP	3
Gitlab CICD	5
Github Actions	4

Operating Systems	Level
Debian	5
RHEL	5
Gentoo	6
FreeBSD	3

<i>Security, Identity Management</i>	<i>Level</i>
<i>LDAP</i>	<i>5</i>
<i>KeyCloak</i>	<i>4</i>
<i>IPTables</i>	<i>5</i>
<i>PKI, OpenSSL</i>	<i>4</i>

<i>Databases</i>	<i>Level</i>
<i>PostgreSQL</i>	<i>4</i>
<i>SQLite</i>	<i>5</i>
<i>MySQL</i>	<i>3</i>
<i>MongoDB</i>	<i>5</i>