MARCIN SZYCHOWSKI

DevOps Engineer, Linux passionate, Python/Bash/Go/Rust/PHP/COBOL Developer
Network security specialist, Systems/Network Administrator, Teacher/Mentor
with 20+ years of professional experience

CONTACT

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- in Marcin Szychowski

IN TWELVE WORDS

I am a natural born problem solver
with outstanding interpersonal
communication skills

SKILLS

Programming

Python	●●●●●
Bash	●●●●●
Perl	●●●○○
Go	●●●●○
HTML/CSS	●●●●○
JavaScript	●●●○○
Cobol/JCL	●●○○○

Operating Systems

Linux	●●●●●
Windows	●●●●○
z/OS	●●○○○

Software & Tools

Database administration	●●●●●
(e.g. Oracle, PostgreSQL, MariaDB, …)	
Cyber Security	●●●●●
(e.g. PKI, TLS, netfilter, SELinux, PF, …)	
SDLC	●●●●●
(e.g. Git, Jenkins, branching strategies, …)	
Data handling/analysis	●●●○○
(e.g. numpy, scipy, pandas, pyspark, …)	
Cloud	●●●○○
(e.g. Docker, Kubernetes, GCP, …)	

LANGUAGES

Polish	●●●●●
English	●●●●○
French	●●○○○
Russian	●●○○○
Italian	●○○○○

CERTIFICATES

ITIL Foundation #5189172 at Axelos

⚙ WORK

since 03/2020
📅 GFT Poland, Łódź
DevOps Engineer
Technologies used: Docker, Kubernetes, Proxmox, Ansible, Jenkins, Python 3, Bash, Git, GitHub, BitBucket, GCP, HashiCorp Vault, SaltStack, MariaDB, PySpark, nginx, ZFS, Jinja2, Go Templates

12/2015 - 02/2020
📍 GFT Poland, Łódź
Support Lead
Technologies used: Oracle DB, Apache, Bash, Python 2/3, CentOS, Jenkins, TeamCity, Java EE, JBoss, AMQ, ZFS, Gradle, groovy, Jira, Confluence, Software Defined Storage (LizardFS)

05/2014 - 11/2015
📍 Rule Financial Poland, Łódź
Senior Support Consultant
Technologies used: MySQL, Apache HTTPd, Bash, CentOS, Jenkins, Java EE, JBoss, AMQ, SVN

since 05/2008
📍 KM Studio, Łódź
IT Training Provider
During this period I ran several trainings ranging from advanced MS Excel through HTML, Bash, Network security (with Linux), advanced MySQL and Linux Administration etc.

since 07/2009
📍 INSE, Łódź
Head of IT Department
Technologies used: Linux, Samba, OpenVPN, LXC, ZFS, rsync, PostgreSQL, SVN, Git

06/2017 - 03/2018
📍 ABRA S.A.
Architect/DevOps, Support Lead
Technologies used: Apache HTTPd, MariaDB, Redis, Bash, ZFS, PHP, Slackware Linux
My role was to provide dev/sit/uat/production environment for the project, then (since 10/2017) to provide 2nd/3rd line support for the development team.

12/2011 - 04/2014
📍 Integrotech, Łódź
Analyst/Designer/Architect
My role involved R&D in a project to design a modern hardware communication module for the new version of Integrotech's gas flow measurement device MSP-02

10/2007 - 12/2011
📍 Okręgowa Komisja Egzaminacyjna, Łódź
Senior Clerk/Developer/DBA
Technologies used: Oracle DB, MySQL, PHP, Apache HTTPd, RedHat Linux, Windows Server

2008 - 2010
📍 STORMmedia, Rąbień
Server Administrator
Technologies used: Linux, netfilter, HTB, Squid-proxy, PHP

11/2003 - 09/2007
📍 blaster.pl, Łódź
One-man IT Department
Technologies used: Linux, gcc, Apache HTTPd, qmail, Squid, iptables, netfilter, HTB, PHP, MySQL

08-12/2002, 05-10/2003
📍 Chili Web Applications, Łódź
Server Administrator

🎓 EDUCATION

2012
📍 Społeczna Akademia Nauk, Łódź
Bachelor of Engineering
Specialty: Mainframe Systems
Thesis: Web Chalkboard: Communication Protocol Proposal and Reference Implementation

👤 PRO BONO

since 07/2017
📍 Slackware Linux (SlackBuilds.org)
Package Maintainer
Packages maintained: spl-solaris, zfs-on-linux, lizardfs, go-ipfs, ipfs-pack, nodejs-bin

06/2013 - 12/2016
📍 Local Residential Community, Łódź
Board Member

⊕ PROJECT HIGHLIGHTS

Most of the projects described below do not state clients nor products I have been involved with due to confidentiality requirements.

GCP/GKE/dbt/BigQuery/Python/Docker Desktop since 03/2022

My current project involves implementation of the dbt-based tool that would ease the reporting management and execution through kubernetes jobs on BigQuery Engine. End user interface employs Docker Desktop and set of Windows wrapper scripts. I play a role of DevOps engineer.

Python/PySpark/Pandas/Bash/Jenkins pipelines 11/2020-02/2022

The project goal was to migrate reporting process from RDBMS to PySpark. My role there was to develop and optimize CI/CD toolkit to perform routine tasks and enforce policies. My key achievement was a tool that would ensure non-decreasing Python code test coverage through Jenkins pipelines integrated with git (here: BitBucket) code repository.

Linux/Java/Maven/SonarQube 06/2020

My task was to help a team to assess legacy code quality for a prospective project. To this end, I set up the SonarQube, performed the analysis and discussed the result with requesting team, while presenting them with the tool.

SaltStack/Consul/Consul template/Vault/nginx/Proxmox/git VMWare/MySQL/Ansible/Jenkins/Linux/Bash 02/2020-06/2020

My role was to join an existing team and help them reduce technical debt their long-running project had generated over years; propose robust, reliable and performant backup solution; rectify/automate manual procedures etc.

Artifactory/Azure/Docker/Maven/NuGet/npm/git/ Windows Server/Microsoft SQL Server 01/2018-03/2018

My role was to set up Artifactory HA cluster in Azure Cloud as PoC and on Client private cloud, configure it as repository proxy/emulator for various items, integrate with company AD and document all of the above in Confluence.

Java/Oracle DB/PostgreSQL/Angular/Docker/TeamCity/git/Go SonarQube/Bash/Python/AMQ/RedHat Linux 12/2015-02/2020

I played a role of the Support Lead in client Support Team as well as leading DevOps officer. I was responsible for production releases, process automation, provisioning and maintaining of developer and CI environments for the application. I was also in charge of database-related tasks such as overseeing issues with the vendor (Oracle), securely migrating data between environments (prod to non-prod cloning) and between vendors (migration from Oracle to PostgreSQL). However, my key achievement in that project was a versatile controlling tool for the application we supported, that would provide a uniform way to control, provision, deploy, upgrade all components across all environments and servers. I proposed, designed, co-developed and maintained this tool, which is still being used by the team.

Java/CentOS Linux/JBoss/AMQ/PHP/MySQL/Apache/Python/Bash SVN/Jenkins/Java EE/Memcache/Drupal 05/2014-11/2015

The project goal was to prepare new version of product marketing platform and migrate it from JavaEE/JBoss/Oracle stack to Drupal/Apache/PHP/MySQL. The task wasn't trivial, since the platform provides complete information about products offered by the client, including current and historical information about composition, performance, intra-day quotes etc., comprised from various and numerous sources. Hence the new version was a complete application rewrite with enhanced security, flexibility, ease of administration and performance in mind. My role was to establish production and pre-production environments, design release procedures, and making sure we were using the best technologies available in open source ecosystem of the era; as well as training team members, supervising releases, documenting, analysing and discussing with developers releases outcome etc.

MSP-03 12/2011-04/2014

Technologies used: Embedded Linux/SoC/BusyBox
Normative documents: MID Directive 2004/22/EC, ATEX Directive 94/9/EC
The project goal was to design new version of gas metering computer MSP-02 (which proved very successful) in the wake of MID directive coming to force, so that the new device would be even more competitive and 100% EU law compliant. My role was to study and analyze normative, technical and business requirements and use my Linux expertise to help design an interface module, capable of communicating with modern information media and fully compliant with normative regulations (such as MID and ATEX directives). Thus I played roles of business analyst, system designer, and embedded software developer. The project, however, was refactored and partly cancelled due to business decisions.