

## EXPERIENCE

### 1 Chief IT Developer - Nordea Dec 2019 - Present • 7 mos

- » Successfully developed **event-driven**, Prow-like **workflow system** allowing engineering teams to coordinate workloads using pull request comments using **Argo**, **Argo Events**, **Nix**, **Bazel**, **CUE**
- » Led department-wide process of migration from **OpenShift** to **Docker EE**, including development of **Service Catalogue**
- » Reverse engineered **Hyper-V**, **vpnkit**, **linuxkit**, **Docker Desktop** and developed **HVKit**: a suite of Hyper-V extensions, which enabled high performance network access, slirp proxy, shared filesystem, Windows-Linux IPC. This solution addresses Hyper-V, WSL, WSL2 shortcomings. Technologies used: **Hyper-V**, **GO**, **C**, **PowerShell**, **MSYS2**, **socket engineering**.
- » Conducted training sessions for development teams on ways of working and engineering culture, based on best practices from open source communities
- » (ongoing) leading onboarding and security governance process for **IBM CP4D** solution using **VMWare ESXi**, **CoreOS**, **OpenShift**, **Terraform**, **Ansible**, **CIS Benchmark**.

### Expert IT Developer - Nordea Aug 2017 - Dec 2019 • 2 yr 4 mos

- » Developed and integrated **Ansible** modules tailored for deployments within Hadoop ecosystem.
- » Designed and developed software release process for Hadoop based applications using **Jenkins**, **Ansible**
- » Set-up, deployed, and administered numerous, Highly-Available **OpenShift** clusters.
- » Designed processes and created ecosystem for reproducible, **microservices** application development, testing, deployment, continuous integration using **Bazel**, **Kubernetes**, **Nix**, **jsonnet**, **Argo**, **sops**, **gitops**, **monorepo**, **distroless containers**, **BitBucket**
- » Researched & Developed tools for Engineers to aid day-to-day work in restricted (network and policy-wise) corporate environment.
- » Successfully rolled out fully reproducible development environments for engineers using **nix-shell**, customized **NixOS** distribution, offline **NixOS** installer and containerized **static nix** for cluster deployments.
- » Conducted trainings and workshops for engineers on topics related to **containerization**, **container platforms**, **build engineering**, **release engineering**, **programmable infrastructure**.
- » Developed a framework for reproducible training environments based on **NixOS**, **IPXE**, **Jupyter**.
- » Provided tooling and training enabling teams to conduct build & release activities without DevOps engineers.
- » Continuously involved myself in promotion of DevOps culture which played significant role in **development of self-sustainable, cross-functional teams** and individuals.
- » Started work on **Variability Modelling** and **Software Production Lines** in context of software delivery and deployment. Expected result is an expert system further aiding generation of customized workflows and deployments without a need for DevOps engineer.

### R&D Engineer Software - Adva Optical Networking May 2014 - Aug 2017 • 3 yrs 4 mos

- » Took an active part in a development process of a modular integration and delivery pipeline architecture for a major company project, utilizing technologies such as **Jenkins**, **Phabricator**, **Maven**, **Ant**, **CMake**, **Artifactory**, **AWS EC2**.
- » Designed and implemented original, highly generic and extensible framework for completely automated software promotion, releasing, delivery, packaging, and documentation of any product and its component parts on a binary and source code level.
- » Development of a set of software libraries streamlining communication with all of the internally used applications, at the same time enabling rapid development of new tools for automation.
- » Construction of a tool which allows state visualization of commits across hundreds of repositories in a context of multiple shared releases - combining metadata related gathered from external software life-cycle management systems.
- » Created multiple extensions and plugins for internally used build systems such as **Maven** or **Jenkins**.
- » Undertook responsibility in processes related to designing, creation, and monitoring of local and cloud-based infrastructure with regard to **infrastructure as code** principles.

### Student R&D Software Production - Adva Optical Networking Mar 2012 - May 2014 • 2 yrs 3 mos

- » **Unix-based** systems provisioning, configuration, and administration.
- » Development of processes and tools used in waterfall-based software production cycle.
- » Management of version control systems **Subversion**, **GIT**, as well as serving support and training for development teams.
- » Co-creation and deployment of internal release documentation system.
- » Implementation and integration of tools and processes supplying three major project teams with means for code review and static **code analysis**.
- » Development of extensions and plugins for internally deployed systems, such as **Jenkins** or **Phabricator** to suit company-specific work-flows and processes.
- » Creation of a self-contained, installable development environment based on Cygwin which eases code review process for developers using Windows machines
- » Development of fully versioned, streamlined and reproducible development environment used by developers, testers and automated continuous integration systems based on **Docker**, **Vagrant** and **VirtualBox** systems.
- » Creation and utilization tools monolithic Subversion repository conversion into a set of small **Git** repositories, representing components of an entire project.

## EDUCATION

### 1 Gdansk University of Technology Master of Engineering - Electronics, Telecommunications and Informatics Faculty

- » Thesis: *"Evaluation and analysis of modern solutions for automated deployment, scaling and management of containerized applications"*.
- » Tech: **Nix**, **NixOS**, **Docker Swarm**, **Kubernetes**, **Openshift**, **Jupyter**.
- » Grade: Ongoing

### Gdansk University of Technology Bachelor of Engineering - Electronics, Telecommunications and Informatics Faculty

- » Thesis: *"Graphical representation system of the physical and logical Local Area Network structure"*.
- » Tech: **Python**, **CSS3**, **HTML5**, **vis.js**, **Docker Compose**, **Redis**
- » Grade: Upper Second-Class Honours



✉ [hire@r2r.sh](mailto:hire@r2r.sh)  
 🔗 [r2r.sh](https://r2r.sh)  
 🐙 [github.com/r2r-dev](https://github.com/r2r-dev)

## SKILLS

### Programming

Java  
C#  
GO  
Python  
Haskell  
Bash

### Tools

Git  
Docker  
Kubernetes  
Emacs  
Bazel  
Nix/NixOS

## LANGUAGES

English  
Polish

## COURSES

RedHat • OpenShift Administration  
 CNCF • Kubernetes Administrator  
 CNCF • Kubernetes Application Developer

## INTRESTS

Operating Systems  
 Computer Networks  
 Reproducible Software Development  
 Reverse Engineering  
 Knowledge Modelling  
 Psychology & Leadership  
 70s Prog Rock and beyond  
 Top 3 endurance sports