

ABOUT ME

Jack of all trades, quite good at some. Passionate about software development with the focus on development productivity. I enjoy learning and implementing whatever it takes to enable others to excel at their work.

EXPERIENCE

DevOps Engineer

Feb 2022 - Present | Qarik

- Provided expertise and solution regarding transitioning large codebases to **Bazel**, and **Nix**
- Continued work on a **Gazelle** language extension for **Nix**
- Started working on a solution for Bazel's RBE utilizing distributed, lazily evaluated **Nix** store

Software Engineer - Developer Productivity

Jun 2021 - Feb 2022 | Tweag.io

- Designed and implemented a build system based on **Bazel** and **Nix** for a client coming from robotics industry. Build system was designed to provide reproducible, fast and correct builds for an enormous CPP/C/Python codebase with over dozen target platforms, and toolchains.
- Started working on a **Gazelle** language extension aiming to provide a seamless integration between **Bazel** and **Nix** in order to further enhance build hermeticity
- Adapted Android's **kleaf** rule-set to support **kernel** (cross)compilation using **Bazel** and **Nix** provided toolchains
- Developed a solution for extending Bazel **transitions** to support multiple versions of **Nix** provided packages
- Conducted trainings and implemented numerous proof-of-concept projects covering **Bazel**, **Nix** and **Build Systems** for an external client
- Actively involved myself in internal Bazel community, providing help for other engineers

Release Engineer - SRE

Mar 2021 - Jun 2021 | SwissBorg

- Defined and implemented a roadmap for release process improvement
- Development and maintenance of current tech stack based on **EKS**, **AWS**, **Terraform**, **ArgoCD**, **Jenkins**, **sbt**, **gradle**
- Acted as L2 support
- Ensured platform stability

Senior DevOps Engineer

Aug 2020 - Feb 2021 | Nike

- Developed and maintained self-service Apache NiFi platform based on **EKS**, **AWS** using **Terraform**, **Helm**, **Prometheus**, **K8S Operators**, **Maven**, **Jenkins**
- Worked directly with customers as a L1 support


Chief IT Developer


Dec 2019 - Aug 2020 | Nordea


- Successfully developed **event-driven**, Prow-alike **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,

CONTACT

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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
- Led onboarding and security governance process for **IBM CP4D** solution using **VMWare ESXi, CoreOS, OpenShift, Terraform, Ansible, CIS Benchmark.**

Expert IT Developer

Aug 2017 - Dec 2019 | Nordea

- 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

May 2014 - Aug 2017 | Adva Optical Networking

- 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.

INTERESTS

70s Prog Rock

3D Printing

Knowledge Modelling

Reverse Engineering

Reproducible Software

Computer Networks

Operating Systems

LANGUAGES

English (C1)

Polish (Native)

Student R&D Software Production

Mar 2012 – May 2014 | Adva Optical Networking

- **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.

SKILLS

Bash	● ● ● ● ○	CI/CD	● ● ● ● ●
GoLang	● ● ● ○ ○	Bazel	● ● ● ● ○
Haskell	● ○ ○ ○ ○	Helm	● ● ● ● ○
Python	● ● ● ● ●	Kubernetes	● ● ● ● ○
Rust	● ● ○ ○ ○	Linux	● ● ● ● ○
Ansible	● ● ● ● ○	Nix/NixOS	● ● ● ● ○
AWS	● ● ● ● ○	Terraform	● ● ● ● ○
Containers	● ● ● ● ●	Virtualization	● ● ● ● ○

EDUCATION

Master of Engineering

2017 - 2020 | Gdansk University of Technology

- Faculty: Electronics, Telecommunications and Informatics
- Specialization: Computer Networks & Operating Systems
- 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**

Bachelor of Engineering

2012 - 2017 | Gdansk University of Technology

- Faculty: Electronics, Telecommunications and Informatics
- Specialization: Computer Networks & Operating Systems
- 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**

COURSES

- CNCF: Kubernetes Administrator
- CNCF: Kubernetes Application Developer
- RedHat: OpenShift Administration