Alexej Disterhoft

Kubernetes Platform Engineer // DevOps // SRE

⌖ Mainz, Germany @ alexej@disterhoft.de
⚱ May 12, 1989 in Leonidovka, Kazakhstan
⚑ German citizenship

Work Experience

Kubernetes Platform Engineer
since 07/2022

DHL IT Services GmbH, Darmstadt

- *Tech Lead* of the Datalake Kubernetes team from 01/2024.
- Operation and development of the on-premises Datalake Kubernetes platform.
- Migration of manual processes into automated workflows and extensive implementation of GitOps principles using *GitHub Actions*, *ArgoCD*, *Ansible*, *Terraform* etc. to minimize manual interventions in the platform.
- Development of various internal tools, including Kubernetes controllers & CLI tools in *Go* & *Python* and GitHub Actions in *TypeScript*.
- Development of internal GitHub Actions runner infrastructure and the runner image.
- Support of various teams in using the Kubernetes platform and CI/CD pipelines. Presentation of new technologies and best practices.
- Participation in various open-source projects.

Cloud & Container Platform Engineer
03/2021 – 06/2022

R+V Allgemeine Versicherung AG, Wiesbaden

- Operation and improvements of the on-premises cloud via *Rancher* & Kubernetes.
- Automation of various workflows using *GitOps*, *Ansible* & *AWX*, *Python* & *Go*.
- Design, implementation and operation of an MVP for aggregating used resources in Kubernetes clusters for internal cost and performance accounting.
- Exploratory use of Public Cloud Services, primarily Microsoft Azure.
- Work according to SAFe and Scrum methods.

IT Security Consultant
04/2019 – 01/2021

Vindler GmbH, Braunfels

- Planning, execution, and documentation of penetration and application tests.
- Implementation and operation of secure IT infrastructure using containerization and automation tools.
  - System and security monitoring (SIEM) based on ElasticSearch.
  - Open-source video conferencing solutions (Jitsi, BigBlueButton).
  - Various other web applications (Keycloak, Nextcloud, etc.).

Research Associate
10/2015 – 03/2019

Institute of Mathematics, Johannes Gutenberg University, Mainz

- Research in the multidisciplinary Collaborative Research Center TRR146 on numerical methods in the topic area "self-consistent field theory of polymers".
- Development and implementation of numerical algorithms in *MatLab* & *Python*.
- Teaching activities as a tutor and organization of exercises & exams for various lectures in the Numerical Analysis Group.

Languages

German	**Native speaker**
English	**Fluent**

Skills

Cloud Native & DevOps

#kubernetes #containers
#gitops #argocd #github actions
#infrastructure as code #ansible
#terraform #prometheus
#grafana #elasticsearch
#networking #security #unix
#macos #gpus in k8s

Programming Languages

#go #python #typescript
#shell scripting

Cybersecurity

#siem #ethical hacking
#penetration testing

Methods

#kanban #scrum #safe

Interests

#bouldering #running #cycling
#open source

Social Media

🌐 nobbs.dev
 nobbs.dev/go/github
 nobbs.dev/go/linkedin
✘ nobbs.dev/go/xing

Student Assistant 05/2012 – 09/2015

Institute for Mathematics & Computer Science, Johannes Gutenberg University, Mainz

04/2015 – 09/2015: Implementation of numerical methods in *MatLab* & *Python*.

08/2014 – 03/2015: Conducting a weekly tutorial with about 30 students and evaluation of student work.

05/2012 – 06/2014: Implementation of algorithms in the field of Linear Programming and SAT solvers in *C++*.

Civil Service with subsequent temporary employment 04/2009 – 03/2010

Pro Seniore Residenz, Flörsheim-Dalsheim

Education

Mathematics, Master of Science **Final Grade 1.2**

Johannes Gutenberg University, Mainz 04/2013 – 09/2015

- Master's Thesis: "Numerical Treatment of Self-Consistent Field Theory Models using Reduced-Basis Methods".
- Focus on Numerical Analysis, Minor in Computer Science.

Mathematics, Bachelor of Science **Final Grade 1.3**

Johannes Gutenberg University, Mainz 04/2010 – 03/2013

General University Entrance Qualification **Final Grade 1.9**

Staatliches Aufbaugymnasium, Alzey 03/2009

Certifications

Google Associate Cloud Engineer	02/2024
GitHub Actions	02/2024
Microsoft Azure Fundamentals (AZ-900)	02/2022
Certified Kubernetes Application Developer (CKAD)	11/2022
Kubernetes and Cloud Native Associate (KCNA)	11/2021
Certified Kubernetes Security Specialist (CKS)	11/2021
Certified Kubernetes Administrator (CKA)	07/2021

Publications

A. Disterhoft, T. Raasch und F. Schmid. *Numerical reduction of self-consistent field models of macromolecular systems.* PAMM. 16, 915–916. doi.

E. Althaus, M. Blumenstock, **A. Disterhoft** et al. *Algorithms for the Maximum Weight Connected k-Induced Subgraph Problem.* Combinatorial Optimization and Applications. 268–282. COCOA 2014. Springer International Publishing. doi.

Competitions

Finalist & Finisher 10/2016

Audi Smart Factory Hackathon

Audi AG, Ingolstadt

Participant 11/2014

ACM International Collegiate Programming Contest, Northwestern European Regional Contest

Linköping University, Sweden

Participant 11/2013

ACM International Collegiate Programming Contest, Northwestern European Regional Contest

Delft University of Technology, Netherlands