

# peterkurfer

developer

## contact

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## languages

german,  
english fluently

## programming

.NET (C#),  
Go,  
JVM (Java, Kotlin),  
Kubernetes (Helm,  
Kustomize),  
Scripting (Python,  
Ruby, Bash,  
PowerShell),  
IaC (Terraform,  
Ansible)

## about me

Software engineer and developer with a passion for designing, implementing and maintaining software and infrastructure for distributed systems like Microservices in Kubernetes. Experienced in multiple programming languages such as C#, Go, Java as well as in various scripting languages but also in infrastructure technologies like Kubernetes, Docker Swarm and Terraform. Driven by curiosity and always looking for new possibilities and opportunities to improve the status quo. Seeking to leverage my professional expertise and strong perception to secure a job as lead software engineer, in order to pursue my conviction that there is always a suitable yet simple solution for every problem.

## interests

Software Architecture, Software Engineering, IT Security, DevOps, Container technologies, Programming, IaC, Cloud technologies

## projects

- 12/22 - now **RWE Renewables GmbH** Solution Engineer - Tech Lead  
*PMSH - GraphQL API allowing consumers to effectively query SAP data. Optionally consumers can also subscribe to asynchronous update events. (.NET Core C#)*
- 05/22 - now **RWE Renewables GmbH** Solution Engineer - Tech Lead  
*Offshore Campaign Planner Tool - project to replace previous Excel based solution to coordinate and plan maintenance works on offshore wind turbines. (.NET Core C#, Go)*
- 09/20 - 04/22 **G DATA CyberDefense AG** Platform Engineer  
*Migration from Docker Swarm to a new Kubernetes environment: conception and setup of new a Kubernetes environment (on-prem) and assistance of business teams to migrate their workloads. (.NET Core C#, Go)*
- 06/20 - 03/21 **G DATA CyberDefense AG** R & D Engineer  
*Redesign of the backend processing pipeline. The previous architecture was rather error-prone and hard to maintain. A more resilient architecture with a better observability had to be designed and implemented. (.NET Core C#, Go)*
- 10/18 - 04/19 **QAware GmbH** Master thesis — developer  
*Elastic scaling of stateful systems in the Kubernetes cloud platform. Proof of concept implementation of a custom operator which takes care of the deployment and scaling of one or multiple Solr Cloud clusters. (Go)*
- 02/18 - 08/18 **ELSA Corp.** Semester abroad — developer  
*Migration of an IaaS & IaC based manual deployment on Microsoft Azure to a CI/CD workflow based on containers and Kubernetes. Conception and implementation of the whole workflow including the introduction of a*

*global logging and monitoring solution based on AWS CloudWatch Logs, Prometheus and Grafana.*

10/16 - 01/17 **Halvotec Information Services GmbH** University project — developer  
*Technical proof of concept project with .NET Core, ASP.NET Core, Entity Framework Core and AngularIO. Evaluation of the Microservice pattern on Azure Service Fabric and Docker. Project management based on agile methods (Scrum). (.NET Core C#)*

03/16 - 07/16 **CHECK 24 Vergleichsportal Finanzen GmbH** University project — developer  
*Implementation of a software to categorize documents and extract specific information based on an existing OCR solution, Architecture based on Java EE, Tomcat, Spring, Waterfall based project management. (Java)*

## experience

01/2023 - now **RWE Renewables GmbH** Lead Software Engineer  
*Support internal tech leads in all technical questions. Technical assessment of potential developers and tech leads. Maintenance of development guidelines. Support of platform team to align strategy with development requirements.*

04/2022 - 12/22 **RWE Renewables GmbH** Solution Engineer  
*Support all aspects of software development. Ensure software quality, extensibility and maintainability by applying automated and manual code reviews and testing and - if required - assistance during implementation. Join projects as a tech lead to ensure technical conformance and correctness.*

03/2021 - 04/2022 **G DATA CyberDefense AG** Platform Engineer  
*Design, set up and maintain a new Kubernetes environment. Enforce security measurements to avoid compromises during malware analysis. Support other teams in migrating their existing workloads to Kubernetes. Improve application throughput, observability and deployment processes if necessary.*

11/19 - 03/2021 **G DATA CyberDefense AG** R & D Engineer  
*Maintain and extend the backend processing pipeline. Implement and maintain microservices in .NET and Go in an Agile workflow. Apply DevOps principles to the whole development process.*

07/19 - 10/19 **Fraunhofer Institute for Software and Systems Engineering** Scientist  
*Implementation and management of multiple projects from the Fraunhofer group.*

10/18 - 02/19 **Technical University of Applied Sciences Rosenheim** Associate lecturer  
*Preparation and presentation of exercises and lectures for the required elective module "Microservices".*

10/18 - 02/19 **Technical University of Applied Sciences Rosenheim** TA  
*Tutorials for the course Programming 3 — Course of studies: Computer Science.*

10/17 - 02/18 **University of Applied Sciences Rosenheim** Associate lecturer  
*Preparation and presentation of exercises and lectures.*

- Required elective module “Microservices”
- Tutorials for course Programming 3 — Course of studies: Computer Science

03/17 - 07/17 **University of Applied Sciences Rosenheim** TA  
*Tutorials for the course Programming 2 — Course of studies: Computer Science.*

12/15 - 02/18 **Kurfer Network Support - KNS** IT-Consultant & Developer  
*Conception and implementation of small software projects, internal and external trainings, administration of Linux systems, VMware vSphere environments, maintenance of Microsoft Active Directory environments.*

10/16 - 02/17 **University of Applied Sciences Rosenheim** TA  
*Tutorials for the course Programming 3 — Course of studies: Computer Science.*

03/16 - 07/16 **University of Applied Sciences Rosenheim** TA  
*Support of students to complete their exercises.*

- Tutorials for the course Programming 2 — Course of studies: Computer Science
- Tutorials for the course Programming 2 — Course of studies: Business Information Systems.

08/15 - 12/15 **MediaConcept Bürobedarf GmbH** Developer  
*Extension and maintenance of the internally developed CRM & ERP system.*

- Reimplementation of a reporting system
- Reimplementation of a software for registering good receipts
- Internal trainings

03/15 - 07/15 **University of Applied Sciences Rosenheim** TA  
*Tutorials of the course Programming 2 — Course of studies: Business Information Systems.*

09/13 - 08/15 **Kurfer Network Support - KNS** IT-Consultant  
*Conception and implementation of small software projects, administration of Windows and Linux systems and VMware vSphere environments, maintenance of Microsoft Active Directory environments, 1st & 2nd level support.*

03/13 - 09/13 **VACE Engineering GmbH** IT-Consultant  
*1st & 2nd level support, administration of Windows and Linux systems and VMware vSphere environments, maintenance of Microsoft Active Directory environments.*

06/10 - 03/13 **Kurfer Network Support - KNS** IT-Consultant  
*1st & 2nd level support, Conception and execution of migration of Windows XP to Windows 7, administration of Windows and Linux systems.*

## education

- 2017 - 2019 **M.Sc.** Technical University of Applied Sciences Rosenheim  
Computer Science  
*Master thesis: Elastic scaling of stateful systems in the Kubernetes cloud platform*
- 2013 - 2017 **B.Sc.** University of Applied Sciences Rosenheim  
Computer Science  
*Bachelor thesis: Implementierung einer Microservice-Architektur mit dem .NET-Framework zur Modularisierung und Skalierung von Enterprise-Anwendungen*
- 2012 - 2013 **Target degree: B.Sc.** Technical University of Munich  
Information Systems
- 2010 - 2012 **Target degree: B.Sc.** Technical University of Munich  
Informatics
- 2000 - 2009 **Abitur** Staatliches Landschulheim Marquartstein  
Majors: Physics & Economics

## hobbies

Hiking, Climbing, Bouldering, OpenSource development, music