

# Rui Zhang

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## Education

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### Friedrich Schiller University Jena

*M.Sc. in Medical Photonics*

Jena, Germany

*Oct 2018 – Jul 2021*

### Northeastern University

*B.Sc. in Applied Physics*

Shenyang, China

*Oct 2014 – Jun 2018*

## Experience

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### GitLab

*Customer Success Engineer*

Remote

*Dec 2024 – Present, Full time*

- \* Engaged in collaborative work with customer regarding the technical concerns.
- \* Hosted Webinars and Hands-on Labs.

### Red Hat

*Consultant*

Remote Germany

*Jan 2023 – Nov 2024, Full-time*

- \* Implemented and automated OpenShift installation and configuration including storage, logging, monitoring and so on with a GitOps workflow.
- \* Implemented and automated OpenShift Virtualization solutions using Ansible Automation Platform.
- \* Implemented CI/CD pipelines for enhancing software supply chain efficiency.
- \* Provided guidance to client teams on DevOps culture and principles.
- \* Contributed to application modernization projects by helping to implement microservices architecture.

### Technical Graduate

*Sep 2023 – Dec 2023, Full-time*

- \* Learned Red Hat technologies such as Ansible, OpenShift, and RHEL.
- \* Gained comprehensive knowledge of DevOps methodologies and applied the concepts on demand.
- \* Gained experiences as a Solution Architect, Consultant, and Technical Account Manager by rotating through different departments.

### Institute of Diagnostics and Interventional Radiology

*Research Intern*

Jena, Germany

*Aug 2019 – Jul 2021, Internship*

- \* Engaged in collaborative research within the research institute for analyzing MRI metrics of Multiple Sclerosis patients.
- \* Utilized MATLAB and Python to extract and analyze MRI data.
- \* Optimized and trained machine learning models for MRI statistics analysis.
- \* Implemented and optimized image data quality assessment methods using Python.

## Skills

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**Technologies:** Git, Docker, Kubernetes, Ansible, Jenkins, Tekton, Argo Workflows, Argo CD, Helm, Kustomize, Hashicorp Vault, Sigstore, Prometheus, Grafana, Keycloak, PostgreSQL, TensorFlow

**Methodologies:** Agile, DevOps, Scrum, GitOps

**Scripting Languages:** Java/Spring Boot, Python, MATLAB, R, Go, Bash

**Languages:** Chinese, English, German

## Projects

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### Java Application Modernization

Insurance Industry

*Nov 2023 – Nov 2024*

Technologies involved: OpenShift, Argo CD, Argo Workflows, Helm Charts, Jenkins, Prometheus, Grafana, Java/Spring Boot, DB2 database, Microcks, Cucumber, Jmeter, Junit5, Sealed Secret

- \* Provided guidance to the customer developer teams on DevOps culture and principles.
- \* Deployed and configured Argo Workflows for batch processing on OpenShift.
- \* Optimized existing Jenkins pipelines and implemented CD workflows for seamless microservice deployment on OpenShift.
- \* Enabled the Prometheus for scraping metrics from microservices and configured Grafana dashboards for better metrics visualization
- \* Configured a DB2 database connection for microservices, enabling efficient multitenancy.

### Migration to OpenShift Virtualization

Manufacturing Industry

*Apr 2023 – Oct 2023*

Technologies involved: OpenShift, OpenShift Virtualization, Migration Toolkit for virtualization (MTV), Ansible, Ansible Automation Platform, Red Hat Open Data Foundation, Hashicorp Vault, Argo CD, Helm Charts, Prometheus

- \* Automated the installation and configuration of OpenShift, including storage, logging, and monitoring, using a GitOps workflow to ensure consistency and streamlined infrastructure provision.
- \* Implemented Helm Charts for provisioning OpenShift Virtualization virtual machines (VMs) creation and automated the process using Ansible Automation Platform.
- \* Implemented and configured Hashicorp Vault for secret management.
- \* Supported with migrating virtual machines to OpenShift Virtualization using migration toolkit to virtualization.

### CI/CD Champions

Banking Industry

*Feb 2023 – Apr 2023*

Technologies involved: OpenShift, Tekton, Ansible, Helm Charts

- \* Implemented Tekton pipelines for building container images and deploying to OpenShift.
- \* Implemented Helm Charts for creating the templates of Tekton pipelines and relevant resources to improve code reusability.

## Side Projects

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### (Internal) Hackathon

- Contributed to the design and bootstrap of the skeleton of the hackathon tasks for interns.

### Tekton Pipeline with Sigstore

- Implemented container image signing using Tekton Chains, Sigstore, and SPIFFE/SPIRE, enhancing security in the CI/CD pipeline.

### Secret Management in GitOps with HashiCorp Vault

- Designed and implemented a secret management solution using HashiCorp Vault with a GitOps workflow.