

# Henry Richter

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## EDUCATION

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### Diploma in Computer Science

*Dresden University of Technology*

October 2021 – September 2026

*Dresden, Germany*

- Grade average: 1.5 (German grading, 3.7–4.0 GPA)

## EXPERIENCE

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### Associate Software Developer Intern - Kubernetes

*ServiceNow*

September 2024 – March 2025

*Dublin, Ireland*

- **Kubernetes Distribution:** Refactored Ansible deployment pipeline by extracting reusable components into shared collections/plugins and improving integration with the Configuration Management Database (CMDB), a system for tracking IT assets and configurations. Rewrote playbooks to replace shell/command tasks with public Ansible plugins for better reliability.
- **Infrastructure Bootstrapping:** Deployed core components via Flux using Helm charts, including Node/GPU Feature Discovery (NFD/GFD) and Trivy for misconfiguration/security scanning.
- **DevOps & Testing:** Optimized GitLab Kubernetes integration test pipeline, reducing runtime by 30% and improving test accuracy. Created debug images for internal Docker builds to simplify troubleshooting.
- **Internal Tooling:** Developed a Go authentication package for CMDB, using Cobra for CLI functionality and integrating with Keychain, 1Password, and an in-house secret store for secure credential management.

### Full-Stack Developer Working Student – Web Applications

*Uniwunder*

October 2022 – October 2024

*Dresden, Germany*

- **Frontend:** Migrated from Angular 14 to 16 and refactored architecture to support Ionic, enabling cross-platform deployment (iOS/Android). Improved performance with lazy-loaded routing. Built a multi-step user form with dynamic validation and seamless backend integration.
- **Backend:** Upgraded the existing Spring Boot backend from version 2 to 3. Added endpoints to support the multi-step form, handling complex user input and session state. Integrated Firebase Cloud Messaging for targeted push notifications.
- **DevOps:** Created build pipelines for Android and iOS. Set up a self-hosted macOS runner to enable iOS builds.

### IT Support Working Student – First-Level Support

*Jungheinrich*

June 2021 – September 2022

*Wilsdruff, Germany*

## PROJECTS

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### Kubernetes Deployment | *Oracle Cloud, Kubernetes, Talos, Flux, Helm, GitOps*

- Deployed a secure 3-node Kubernetes cluster on Oracle Cloud using Talos Linux, following GitOps practices with Flux CD and secret management via SOPS with Age.
- Provisioned a production-grade infrastructure stack with Cilium CNI, OpenEBS for persistent storage, and database operators including CloudNativePG and MongoDB.
- Automated ingress, DNS, and TLS with NGINX Ingress Controller, ExternalDNS, and Cert-Manager.

### Livechat WebApp | *Spring Boot, SvelteKit, MongoDB, Docker, Helm*

- Built a live chat web application using Spring Boot and SvelteKit.
- Implemented real-time messaging via WebSockets and integrated MongoDB for data persistence.
- Developed a GraphQL API using Netflix DGS and secured the application with Spring Security and OAuth2.
- Containerized the application and created a Helm chart as a proof of concept for Kubernetes deployment.

## TECHNICAL SKILLS

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**Languages:** Kotlin, Java, Go, Python, TypeScript, C++, SQL, HTML/CSS

**Frameworks:** Spring Boot, Angular, SvelteKit

**Infrastructure:** Kubernetes, Docker, Helm, Flux, Ansible

**Developer Tools:** Git, GitHub/GitLab/Bitbucket CI/CD