

## EDUCATION

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### Dresden University of Technology

*Diploma in Computer Science*

- **Grade average:** 1.5  $\approx$  3.7 GPA

Dresden, Germany

*Oct 2021 – Sep 2026*

## EXPERIENCE

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### ServiceNow

*Associate Software Engineer Intern*

Dublin, Ireland

*Sep 2024 – Mar 2025*

- **Kubernetes Distribution:** Refactored Ansible pipeline by replacing shell tasks with public plugins and modularizing playbooks into shared collections, improving reliability. Enhanced CMDB integration to sync cluster capabilities and retrieve configurations for Kubernetes.
- **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.

### Uniwunder

*Web Developer Working Student*

Dresden, Germany

*Oct 2022 – Oct 2024*

- **Frontend:** Upgraded Angular 14 to 16 for enhanced security and modern features. Refactored architecture for Ionic to enable iOS/Android deployment. Improved performance with lazy-loaded routing. Built a multi-step user form with dynamic validation and seamless backend integration.
- **Backend:** Updated to Spring Boot 3 for long-term support and compatibility. 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.

### Jungheinrich

*First-Level Support Working Student*

Wilsdruff, Germany

*Jun 2021 – Sep 2022*

## PROJECTS

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

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

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

- Built a live chat web application using Spring Boot WebFlux 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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- **Cloud-Native Development:** Kubernetes, Docker, Helm, Flux, GitOps
- **Backend Engineering:** Go, Java, Spring Boot, GraphQL, REST, WebSockets
- **CI/CD & Automation:** GitLab/Bitbucket Pipelines, GitHub Actions, Ansible, Cobra
- **Database & Messaging:** PostgreSQL, MySQL, MongoDB, Firebase