

Jeremy Heissenberger

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Professional Summary

Software Engineering student and aspiring developer with a strong focus on **Java backend** and **modern web technologies**. Practical experience in building microservices and reactive frontends through intensive, collaborative university projects. Seeking an internship or junior software engineering role to contribute to professional CI/CD environments and deliver high-quality code in real-world applications.

Technical Skills

- **Backend:** Java (Spring Boot, Cloud, Security), JavaScript (Node.js), Python, C#, PostgreSQL, MongoDB, JPA/Hibernate, REST APIs, JWT
- **Frontend:** Angular (RxJS, Signals), React, TypeScript, SCSS
- **DevOps & Tools:** Git, Docker, CI/CD, Jira/Confluence, MQTT
- **Methodologies:** Agile (Scrum, Kanban)

Software Engineering Projects

Further Development of gAmIcode – Gamified Learning Platform | Ongoing

- **Redesigned** platform architecture for modular extensibility and **developed** an automated evaluation system for Java (Unit Tests) and SQL.
- **Tech Stack:** JavaScript (Backend), React (Frontend), MongoDB, Docker.

Webshop Microservices – Full-Stack E-Commerce System

- **Engineered** a modular architecture with decoupled services for inventory/orders and **implemented** CI/CD pipelines with strict Quality Gates.
- **Tech Stack:** Spring Boot, REST, PostgreSQL, Docker, Maven.

Distributed Sensor System – Cloud & Mobile Integration

- **Built** an end-to-end sensor data visualization system featuring secure backend-to-client JWT communication and real-time Chart.js rendering.
- **Tech Stack:** Spring Cloud (Eureka, Gateway), Angular, Android (Capacitor).

ActiveTogether – Reactive SPA for Course Management

- **Developed** a reactive SPA for sports course management utilizing modern Angular state management (Signals) for optimal cross-device UI.
- **Tech Stack:** Angular (v17+), Signals, RxJS, Angular Material, Bootstrap.

IoT Environment Monitor – Python & MQTT

- **Created** a networked Raspberry Pi measurement system, configuring reliable MQTT Pub/Sub messaging for centralized environmental monitoring.
- **Tech Stack:** Python, MQTT (paho), Raspberry Pi GPIO, REST.

Professional Experience

Alternative Civilian Service | 07/2023 – 03/2024

Austrian Red Cross, Lower Austria

- **Supported** emergency medical and patient care services in high-stress environments.
- **Communicated** effectively with patients, dispatchers, and team members to ensure seamless care.
- **Handled** challenging and critical situations with composure and responsibility.

Education

University of Applied Sciences Burgenland – Campus Pinkafeld, Austria | Expected June 2027

Bachelor of Science in Software Engineering & Networked Systems

- **Focus Areas:** Software Engineering & OOP, Web/IoT, DevOps, IT Security

Additional Information

- **Languages:** German (Native), English (Highly Proficient), Spanish (Basic)
- **Hobbies:** Emerging Software Technologies, Virtual Reality, Fitness, Motorsport Simulation, Family, Friends, Travel