

Nikolas Rummel

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Education

Baden-Wuerttemberg Cooperative State University (DHBW)

Oct 2023 – Current

- Current GPA: 1.1
- **Key Subjects:** Mathematics, Theoretical Computer Science, Software Engineering

Abitur (General University Entrance Qualification)

Jul 2023

- GPA: 1.2 (Best in the Year)

Work experience

Semantic Search Evaluation

2. Semester

- Evaluated usage of semantic search for a Customer Service Management (CSM) tool.
- Compared various embedding models and vector databases with benchmarks
- Proposed an architecture for the new system and implemented a POC.

Filters in a Marketing Automation System

3. Semester

- Developed filters using fuzzy search algorithms (Levenshtein, N-Gram).
- Compared Hibernate Search with other libraries.
- Managed data in a GCP MySQL replica.
- Backend: Spring Boot, Frontend: React.

Software Engineer (Part time, next to School), dmTECH

2022

- While the last year of my Abitur, I joined as an
- Developed software using Java Spring Boot and Apache Camel.
- Worked on API development (REST), debugging, and Git.
- Independently developed a service.
- Gained experience with Scrum and project management.

Recent Projects

Dashify - Software Engineering University Project

- Developed a customizable dashboard with widgets with features such as recipe and todo list management.
- Implemented a complex relational database model and backend architecture.
- Covered the complete Software Engineering lifecycle: from requirements engineering to deployment.
- Set up CI/CD pipelines with GitLab using Docker for automated testing and deployment.
- Group project: Collaborated using pair programming, code reviews, and version control best practices.
- Technology stack: Next.js (Frontend), Java Spring Boot (Backend), PostgreSQL, Git.

Others

Languages: German, Englisch

Technologies: Java, JavaScript, SQL, Spring Boot, React, Next.js, Tailwind CSS, Git, Scrum, Assembler

Math Camp: Participated in a mathematics camp organized by KIT in Belgium.

Hobbies: Coding, Piano, Sports, Cooking