

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