

David Steindl

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Education

Vienna University of Technology (TU Wien)

October 2023 – Present

Bachelor of Science in Computer Science (Software Engineering)

Vienna, Austria

Selected relevant Coursework:

- **Software Engineering Project:** Scrum-based production-ready full-stack team project with CI/CD
- **Web Engineering:** Modern web applications using JavaScript, Node.js, Vue.js, WebSockets
- **Software Quality Assurance:** Requirements Engineering, acceptance testing, unit and integration testing
- **Distributed Systems:** Java concurrency (multithreading), message queues, leader election and fault tolerance
- **Algorithms & Data Structures:** Complexity analysis, graph theory, sorting algorithms, trees, hashing

BORG Linz for Communication

September 2018 – June 2022

A-Levels, Focus on communication and rhetoric

Hagenberg, Upper Austria

- Education with focus on communication
- Rhetoric and presentations, focus on public speaking

Projects

Music Genre Clustering | [Demo](#) | Python, Jupyter Notebook, Pandas, scikit-learn, UMAP, Plotly | [GitHub](#)

- Interactive data science tool for visualizing genre similarities and acoustic relationships among 114k Spotify tracks
- Development of a reproducible end-to-end ML workflow with Pandas, NumPy and scikit-learn
- Unsupervised learning with UMAP (dimensionality reduction) and K-Means to identify structural genre clusters
- Statistical aggregation and cluster analysis for interpretable evaluation of large datasets
- Deployment as an interactive Plotly web visualization (GitHub Pages)

TicketLine WebApp | Spring Boot, Angular, JPA+H2 | [GitHub](#)

- Full-stack event ticket booking system developed as part of a university course (Software Engineering Project)
- Extensive search and filtering functionality based on database queries with Specifications, ticket and user management, payment processing
- Layered backend architecture (Controller-Service-Repository) with Dependency Injection, DTO/Mapper pattern (MapStruct) and RESTful APIs
- Authentication and registration with Spring Security (JWT-based, role-based authorization)
- Persistence with JPA/Hibernate including dynamic queries (Specifications), pagination and validation
- Agile collaboration in a team of six, organized using the Scrum development model

Experience

Social-internship Alzheimer's support Linz

July 2021 – August 2021

MAS DSS Linz

Linz, Upper Austria

- Quality assurance of the website of the service point
- Support of workshops with focus on dementia prevention

Technical skills

Programming languages: Java, Python, C, JavaScript/TypeScript, HTML/CSS, SQL, R

Frameworks: Spring Boot, JPA, Spring Security, Angular, Next.js, React.js, Tailwind, JUnit, AssertJ

Developer tools: Git, Docker, IntelliJ, PyCharm, Jupyter Notebook, VSCode, Node.js, Figma

Data Science: Pandas, NumPy, scikit-learn, UMAP, Plotly

Languages: German (native), English (fluent), Spanish (A2)