

Work experience

05/2022 - present

Software Engineer at **Celonis**, Munich, DE

Java Spring Boot TypeScript Angular Docker Kubernetes PostgreSQL

- Developed and maintained Data Pipeline services (designing, implementing, testing).
- Services served 27K API calls/s, fan out to 500K DB calls/s, ingesting 10TB data/day.
- Participated in the hiring process by interviewing candidates and providing feedback.
- Onboarded new joiners by providing training, support on procedures, and technologies.
- Approved releases by ensuring that code changes met all quality, standards.

01/2020 - 04/2022

Junior Software Engineer at **Celonis**, Munich, DE

Java Spring Boot TypeScript Angular Docker Kubernetes PostgreSQL

Part of Event Collection team.

12/2018 - 11/2019

Full Stack Developer at **Aiderly GmbH**, Berlin, DE

React TypeScript styled-components GraphQL Apollo Hasura PostgreSQL

- Consulted on technology stack decisions and define good developer experiences.
- Refined user flows, complied with accessibility standards.
- Defined and transformed component APIs as well as database schemas.
- Designed, developed new features with React; setup communication with back-end.
- Maintained and adapted existing features of the Aiderly software.

08/2018 - 10/2018

Engineering-Fellow at **Tech4Germany**, Berlin, DE

gulp.js HTML Sass JavaScript Vue.js Figma UX

- Investigated user base, worked agile, iteratively prototyped, early user testing.
- Redesigned web presence (approx. 85M Euro revenue in 2017) iteratively.
- Coded accessible website, added mobile viewport, built design system.
- Presented in front of the Minister of State (Digitisation) and Germany's Chief of Staff.

06/2015 - 08/2015

Tutor in Computer Science at **Ludwig Maximilian University of Munich**, DE

Education

04/2018 - present

Ludwig Maximilian University of Munich, DE

Pursued degree: M.Sc. in Computer Science, Average grade: 1.35

- Worked on a project in the area of logic based complex event processing on uncertain data implemented in Rust
- Implemented P2P application based on Chord algorithm (by MIT) in Rust (graded 1.0)
- Built real-time interactive web app with Scala.js Frontend and Scala Backend (1.0)

01/2019 - 07/2019

Leiden University, NL

Study abroad (Spring 2019), Computer Science, Erasmus+ Grant

10/2013 - 04/2018	Ludwig Maximilian University of Munich, DE B.Sc. in Media Informatics and Minor Human-Computer Interaction, Average grade: 2.10 • Thesis "Axis- Plus Content-based Control for Camera Drones: Design and Evaluation of User Interface Concepts" (graded 1.0, Advisor: Axel Hösl) and disputation (1.0) led to conference participation where peer-reviewed paper [1] was presented • Won 1st place at AI tournament with Settlers of Catan implementation in Java (1.0)
05/2011 - 09/2013	Technical University of Munich & Ludwig Maximilian University of Munich, DE Bioinformatics

Scholarships and Grants

02/2019	Received grant from Erasmus+ programme , EU to study abroad at the Leiden University, NL for half a year (<i>Amount: 360,00 € (monthly), Duration: 5 months</i>)
09/2018	Received scholarship from VolkswagenStiftung , DE to drive digitisation in Germany as a Tech4Germany fellow (<i>Amount: 1.400,00 € (monthly), Duration: 2,5 months</i>)

Volunteer experience

2013 - 2014	Mentor at Lewis and Clark College , Munich, DE <i>Year of Study in Munich program</i>
-------------	---

Certifications

24 June 2018	Erasmus+ Online Linguistic Support (OLS) , EU English language assessment at level C2 CEFR
24 June 2016	Leipzig University of Applied Sciences , DE English in Computer Science and Information Technology at level C1.1 CEFR (Grade 1,0)

Research

Axis+Content [1] was written & submitted to DroNet@MobiSys 2018 by Andreas with the help of [Axel Hösl](#) and [Andreas Butz](#). It received overall merit *accept* and *weak accept* by two knowledgeable reviewers, and was accepted as one of 6 full papers (out of 26 submissions). See also his publication profiles at [DBLP](#) and [Google Scholar](#)

Talk

15 June 2018	Full paper presentation of Axis+Content [1]. At 4th ACM Workshop on Micro Aerial Vehicle Networks, Systems, and Applications (DroNet 2018) @ MobiSys 2018. Munich, DE At the <i>conference</i> , Andreas held an <i>18-minute talk</i> to present the full paper and answer questions in the Q&A afterwards.
--------------	---

Skills

<i>Languages</i>	German (native), English (fluent)
<i>Programming languages & tools</i>	React, TypeScript, JavaScript, Java, Scala, Swift, Spring Boot, Angular, Docker, Python, C#, Rust, GraphQL, REST, PostgreSQL, SQL, HTML/CSS, R, Git, LaTeX

References

- [1] Andreas Ellwanger, Axel Hoesl, and Andreas Butz. “Axis- Plus Content-based Control for Camera Drones: Design and Evaluation of User Interface Concepts”. In: *Proceedings of the 4th ACM Workshop on Micro Aerial Vehicle Networks, Systems, and Applications*. DroNet’18. Munich, Germany: ACM, 2018, pp. 9–14. ISBN: 978-1-4503-5839-2. DOI: [10.1145/3213526.3213529](https://doi.org/10.1145/3213526.3213529). URL: <http://doi.acm.org/10.1145/3213526.3213529>.