

# Andreas Ellwanger, B.Sc.

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Interests: [React](#) [JavaScript](#) [TypeScript](#) [Rust](#) [Java](#) [Scala](#) [GraphQL](#)

## Work experience

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01/2020 - present | **Junior Software Engineer at Celonis**, Munich, DE

[Java](#) [Spring Boot](#) [TypeScript](#) [Angular](#) [Docker](#)

Core development - Event collection

12/2018 - 11/2019 | **Full Stack Developer at Aiderly GmbH**, Berlin, DE

[React](#) [TypeScript](#) [styled-components](#) [GraphQL](#) [Apollo](#) [Hasura](#) [PostgreSQL](#)

- Consult on technology stack decisions and define good developer experiences
- Refine user flows, comply with accessibility standards
- Define and transform component APIs as well as database schema
- Design & develop new features with react; setup communication with back-end services
- Maintain and adapt 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

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04/2018 - present | **Ludwig Maximilian University of Munich**, DE

Pursued degree: M.Sc. in Computer Science, Average grade: 1.66

- 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

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02/2019	Received grant from <b>Erasmus+ programme</b> , 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 <b>VolkswagenStiftung</b> , DE to drive digitisation in Germany as a <b>Tech4Germany fellow</b> ( <i>Amount: 1.400,00 € (monthly), Duration: 2,5 months</i> )

## Volunteer experience

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

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

## Research

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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

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15 June 2018	<b>Full paper presentation</b> 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.
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## Skills

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

## References

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- [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>.