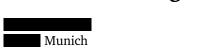
# Andreas Ellwanger, B.Sc.





+49 160

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Interests: React JavaScript TypeScript Rust Java Scala GraphQL

### Work experience

Germany

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

04/2018 - present

Ludwig Maximilian University of Munich, DE

Pursued degree: M.Sc. in Computer Science, Average grade: 1.57

- 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 (*Amount: 360,00* € (*monthly*), *Duration: 5 months*)

09/2018 Received scholarship from **VolkswagenStiftung**, DE to drive digitisation in Germany as a **Tech4Germany fellow** (*Amount*: 1.400,00 € (*monthly*), *Duration*: 2,5 *months*)

## Volunteer experience

2013 - 2014 | Mentor at Lewis and Clark College, Munich, DE

Year of Study in Munich program

#### 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 conference, Andreas held an 18-minute talk to present the full paper and answer questions in the Q&A afterwards.

#### Skills

Languages | German (native), English (fluent)

Programming | React, TypeScript, JavaScript, Java, Scala, Swift, Spring Boot, Angular, Docker, Python, languages & tools | C#, Rust, GraphQL, REST, PostgreSQL, SQL, HTML/CSS, R, Git, LaTeX

Organization | LMU Alumni Informatik e.V.

# 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. URL: http://doi.acm.org/10.1145/3213526.3213529.