Andreas Ellwanger, B.Sc.

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Andreas, a postgraduate student, currently pursues Computer Science at the Ludwig Maximilian University of Munich, Germany. He graduated in April 2018 at the LMU Munich with a Bachelor of Science in Media Informatics and Human-Computer Interaction. In the first half of 2019, he took part in the Erasmus+ program and studied CS abroad at the Leiden University, The Netherlands for one semester. At the moment Andreas works remotely for a Berlin-based startup called Aiderly GmbH as a Full Stack Developer / UX Researcher. Moreover, since last year, he is part of the Tech4Germany fellowship, Germany's first e-Government fellowship with Germany's Chief of Staff Prof. Helge Braun as a patron. Therefore Andreas had been staying in Berlin, Germany for three months to work as UX Researcher as well as Frontend Developer for the German government. Together with eight other fellows, they worked on topics related to digitalisation and e-government.

Interests: React JavaScript TypeScript Rust Java Scala GraphQL

Work experience

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

01/2019 - 07/2019 | **Leiden University**, NL
Study abroad (Spring 2019), Computer Science, Erasmus+ Grant

04/2018 - present | **Ludwig Maximilian University of Munich**, DE
Pursued degree: M.Sc. in Computer Science, Average grade: 1.67
- 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)

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 languages & tools	React, TypeScript, JavaScript, Java, Scala, Python, 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.