



# Tim Weiland

*Curriculum Vitae*

✉ hello@timwei.land

## EDUCATION

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### B.Sc. Computer Science

2017-2021

*Karlsruhe Institute of Technology*

Minor in Mathematics. Thesis topic: Gradient-based meta-learning for fast adaptation of sequence-to-sequence networks to error corrections in Automatic Speech Recognition.

### M.Sc. Machine Learning

2021-today

*University of Tübingen*

## WORK EXPERIENCE

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### Software Engineer

2017

*Vision & Robotics GmbH, Koblenz*

Three months of full-time work. Designed an algorithm for segmentation of shelves in retail stores from point cloud data.

### Teaching Assistant

2018-2019

*Basic Notions of Computer Science*

Taught students about various CS topics (logic, proofs, algorithms, data structures, ...) and corrected exercise sheets.

### Software Engineer

2019-2021

*Karlsruhe Information Technology Solutions – kites GmbH*

Working student. Company was later acquired by Zoom.

- Developed a real-time collaborative editor to enable humans to conveniently correct transcripts generated by an Automatic Speech Recognition system; implemented various features on top (version control, authorship tracking, ...)
- Rewrote a server that distributes data for real-time Automatic Speech Recognition and Machine Translation within one month of full-time work; the server is now being used in production.

### Freelancing

2020-2021

*Badisches Landesmuseum, Deutsches Meeresmuseum*

Adapted a web app for the Badisches Landesmuseum. Extended said web app with a CMS for the Deutsches Meeresmuseum. Helped develop the prototype for the xCurator, a recommender system for museum content, for the Badisches Landesmuseum.

## VOLUNTEER EXPERIENCE

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### Organizer

2018-today

*Hack & Söhne*

Organization of tech talks, workshops and hackathons (including Germany's biggest student-organized hackathon).

## PROJECTS

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### Intellilingua

2018-2019

*Intelligent language learning app*

A language learning app based on the input hypothesis: The app tracks the interests and the current knowledge level of the user and suggests slightly more difficult material fitting the user's interests to help the user improve their skills in an incremental and enjoyable fashion. To do so, the app uses various natural language processing methods. The app was developed for the module "Software Engineering in Practice" with two other students at KIT.

## SKILLS

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#### *Languages*

German (native), English (fluent), French (good),  
Spanish (basic knowledge), Japanese (basic knowledge)

#### *Programming languages*

Python > C++, Java, JavaScript > C#, C, Haskell, Prolog,  
Julia, R

#### *Technologies*

PyTorch, Numpy, Scikit-learn, Pandas, Linux

## COMPETITIONS AND AWARDS

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### Dr. Hans Riegel subject award

2016

*First prize in Physics for a research paper with the topic "Theoretical prediction and experimental verification of gravitational waves"*

### Finalist

2016

*34th German National Computer Science Contest*

### MINT-EC Certificate

2017

*Level 3: With distinction*

### Participant in the selection procedure for the IOI 2017

2017

*Selection procedure of the German team for the International Olympiad in Informatics*

*Tim Weiland*

Tim Weiland  
11th October 2021