

# Thomas Gotwig

## Address

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## Date and place of birth

04.07.1991 in Viechtach

## Nationality

German

## Website

[www.tgotwig.me](http://www.tgotwig.me)



## Job

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01.07.2018 – 28.06.2019

*Full-Stack-Developer*

*Full-time*

Full time employee at **Arago GmbH**

- ❖ Further development of an Elixir-based expert system engine
- ❖ Establishment of automated cluster deployments via Kubernetes
- ❖ Development of engine-specific performance tests under AWS
- ❖ Further development of an ontology in turtle format
- ❖ Further development of an existing front-end in React

01.10.2017 – 29.06.2018

*Full-Stack-Developer*

*Full-time*

Bachelor project at **Philipps University**

- ❖ Programming a system for analyzing gene neighborhoods via interactive web visualizations

01.12.2016 – 29.09.2017

Front-End-Developer  
Part-time

Student assistant at the **Justus Liebig University**

- ❖ Implementation of various highly specific web widgets in HTML5 and JavaScript for the visualization of bacterial genome information
- ❖ Implementation of interactive standard diagrams using open-source JavaScript libraries
- ❖ Implementation of a D3.js-based synteny plot

## School & Study

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07.2013 – 10.2018

**Bachelor of Science** with a focus on **bioinformatics** at the THM Gießen

Elective Modules: Components and Frameworks, Genetic Algorithms, Computer-Aided Drug Design, Introduction to Molecular Modelling

08.2010 – 06.2012

State certified assistant for Information processing - technology at TLS Gießen

## Expertise

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*Programming Languages*

JavaScript / Typescript, Python, Rust, Elixir, Java, R

*Shell Languages*

fish, bash, awk

*Markup Languages*

HTML, XML, YAML

*Style Languages*

CSS, SASS

*Javascript Libraries*

Angular, Angular Material, D3, TippyJS, fontawesome, VueJS, Quasar, ApexCharts, React, Bootstrap, Materialize, JQuery, Lodash, Phylocanvas, Google Chart, Tooltip.io, Passport.js

*Node.js Libraries*

Express, ESLint, Mocha, Socket.io, joi, Passport.js, JWT

<i>Python Libraries</i>	Pandas, Numpy, scikit-learn, Keras, Tensorflow, Jupyterlab, Matplotlib, Seaborn, Bokeh
<i>Elixir Libraries</i>	Phoenix, Conform
<i>Databases</i>	SQL, Elasticsearch, MongoDB, JanusGraph, RedisGraph
<i>Build Tools</i>	NPM, Pipenv, Webpack, Cargo, Distillery, Maven
<i>Deployment Tools</i>	Docker, CircleCI, Jenkins, Kubernetes
<i>Collaboration Tools</i>	Jira, Pivot Tracker
<i>Cloud-Computing</i>	AWS CloudFormation & EKS, Digitalocean, GitHub Pages
<i>Development Methods</i>	Scrum, Kanban
<i>Sketching</i>	Draw.io, Affinity Photo & Designer, Adobe XD
<i>Versioning</i>	Git, Github / Gitlab, Bitbucket
<i>Operating Systems</i>	MacOS, Ubuntu, Alpine, Windows
<i>Optimization Methods</i>	Evolutionary Algorithms
<i>Recognition Algorithms</i>	Neural Networks, Expert-Systems
<i>Bioinformatics</i>	DNA Analysis, EMBOSS, BLAST, SAMtools, Bowtie 2, Bedtools 2, rpy2, Snakemake, PyMOL, MOE, ETE Toolkit