

Thomas Gotwig

Address

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Date and place of birth

04.07.1991 in Viechtach

Nationality

German

Website

<https://tgotwig.me>



Job

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	Student assistant at the Justus Liebig University
Front-End-Developer Part-time	<ul style="list-style-type: none"> ❖ 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

07.2013 – 10.2018	Bachelor of Science with a focus on bioinformatics at the THM Gießen <u>Elective Modules:</u> 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

<i>Programming Languages</i>	JavaScript / Typescript, Python, Rust, Elixir, Java, R
<i>Shell Languages</i>	fish, bash, awk
<i>Markup Languages</i>	HTML, XML, YAML
<i>Style Languages</i>	CSS, SASS
<i>Javascript Libraries</i>	Angular, Angular Material, D3, TippyJS, fontawesome, VueJS, Quasar, ApexCharts, React, Bootstrap, Materialize, JQuery, Lodash, Phylocanvas, Google Chart, Tooltip.io, Passport.js
<i>Node.js Libraries</i>	Express, ESLint, Mocha, Socket.io, joi, Passport.js, JWT

<i>Python Libraries</i>	Pandas, Numpy, scikit-learn, Keras, Tensorflow, Jupyterlab, Matplotlib, Seaborn, Bokeh
<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