

Thomas Gotwig

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Date and place of birth 04.07.1991 in Viechtach

Nationality German

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Job

- 01.07.2018 – 28.06.2019 Full time employee with limited contract at **Arago GmbH**
Full-Stack-Developer
Full-time
- ❖ Further development of an Elixir-based expert system engine (AI-System)
 - ❖ 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 Bachelor project at **Philipps University**
Full-Stack-Developer
Full-time
- ❖ 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

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

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, RxJS, Moment.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, Distillery
<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, Firebase
<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