

Thomas Gotwig

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Date and place of birth 04.07.1991 in Viechtach

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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 under AWS
 - ❖ Development of engine-specific performance tests under AWS with Python and Java
 - ❖ Further development of an ontology in turtle format for JanusGrapph
 - ❖ Further development of an existing React Front-End
- 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 in Angular, D3, Node.js and Elasticsearch.

01.12.2016 – 29.09.2017	Student assistant at the Justus Liebig University
Front-End-Developer	❖ Implementation of various highly specific web widgets in HTML5 and JavaScript for the visualization of bacterial genome information
Part-time	❖ Implementation of interactive standard diagrams using open-source JavaScript libraries
	❖ Implementation of a D3.js-based synteny plot

School & Study

11.03.2020 - continuously	Master of Science in High-Integrity-Systems at UAS Frankfurt
01.07.2013 – 25.10.2018	Bachelor of Science in Bioinformatics at THM Gießen <u>Elective Modules</u> : Components and Frameworks, Genetic Algorithms, Computer-Aided Drug Design, Introduction to Molecular Modelling
01.08.2010 – 28.02.2013	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, LaTeX
Style Languages	CSS, SASS
Java Libraries	Spring Boot, Springfox Swagger
Javascript Libraries	Angular, Angular Material, D3, TippyJS, fontawesome, VueJS, Quasar, ApexCharts, React, Bootstrap, Materialize,

	JQuery, Lodash, Phylocanvas, Google Chart, Tooltip.io,
<i>Node.js Libraries</i>	Passport.js, RxJS, Moment.js
	Express, ESLint, Mocha, Socket.io, joi, Passport.js, JWT, Jasmine, Protractor
<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