

Thomas Gotwig

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Date and place of birth 04.07.1991 in Viechtach

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Job

01.05.2020 – continuously Student assistant at the **Medical Informatics Group**
Full-Stack-Developer
Part-time

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	❖ Programming a system for analyzing gene neighborhoods via interactive web visualizations in Angular, D3, Node.js and Elasticsearch.
Full-time	
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
01.09.2013 – 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

<i>Java Libraries</i>	Spring Boot, Springfox Swagger
<i>Javascript Libraries</i>	Angular, Angular Material, D3, TippyJS, fontawesome, VueJS, Quasar, ApexCharts, React, Bootstrap, Materialize, JQuery, Lodash, Phylocanvas, Google Chart, Tooltip.io, RxJS, Moment.js, Handlebars.js
<i>Node.js Libraries</i>	Express, ESLint, Mocha, Socket.io, joi, Passport.js, JWT, Jasmine, Protractor, Passport.js, Moment.js
<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