

Thomas Gotwig

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Date and place of birth 04.07.1991 in Viechtach

Nationality German

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Job

- 01.05.2020 – continuously Student assistant at the **MIG Uniklinik Frankfurt**
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

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| 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 | |
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| 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

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| 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

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| 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