

Thomas Gotwig

Address

Ginnheimer Landstraße 167a
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Deutschland

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Date and place of birth

04.07.1991 in Viechtach

Nationality

German

Website

tgotwig.github.io/tgotwig



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

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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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|-------------------|--|
| 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

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| <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 |
| <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 |

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| <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 |

Frankfurt am Main,
07.01.2020