Thomas Gotwig

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04.07.1991 in Viechtach

Date and place of birth

Nationality German

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Job

01.05.2020 – continuously

Full-Stack-Developer

Part-time

Student assistant at the Medical Informatics Group

Further development of an medical-register-system along with Java 8, Maven, JSF, PrimeFaces, Docker, PostgreSQL.

01.07.2018 – 28.06.2019 Full-Stack-Developer Full-time Full time employee with limited contract at **Arago GmbH**

- 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 Full-Stack-Developer Full-time

Bachelor project at Philipps University

Programming a system for analyzing gene neighborhoods via interactive web visualizations in Angular, D3, Node.js and Elasticsearch.

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

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
Shell Languages
Markup Languages

JavaScript / Typescript, Python, Rust, Elixir, Java, R fish, bash, awk HTML, XML, YAML, LaTeX Style Languages CSS, SASS

Java Libraries Spring Boot, Springfox Swagger, JSF, PrimeFaces

Javascript Libraries Angular, Angular Material, D3, TippyJS, fontawesome,

VueJS, Quasar, ApexCharts, React, Bootstrap, Materialize,

JQuery, Lodash, Phylocanvas, Google Chart, Tooltip.io,

RxJS, Moment.js, Handlebars.js

Node.js Libraries Express, ESLint, Mocha, Socket.io, joi, Passport.js, JWT,

Jasmine, Protractor, Passport.js, Moment.js

Python Libraries Pandas, Numpy, scikit-learn, Keras, Tensorflow,

Jupyterlab, Matplotlib, Seaborn, Bokeh

Elixir Libraries Phoenix, Conform, Distillery

Rust Libraries Clap, Regex, Serde, iced, yew

Databases SQL, Elasticsearch, MongoDB, JanusGraph, RedisGraph

Build Tools NPM, Pipenv, Webpack, Cargo, Distillery, Maven

Deployment Tools Docker, CircleCI, Jenkins, Kubernetes

Collaboration Tools Jira, Pivot Tracker

Cloud-Computing AWS CloudFormation & EKS, Digitalocean, GitHub Pages,

Firebase

Development Methods Scrum, Kanban

Sketching Draw.io, Affinity Photo & Designer, Adobe XD

Versioning Git, Github, Gitlab, Gitea, Bitbucket

Operating Systems MacOS, Ubuntu, Alpine, Windows

Optimization Methods Evolutionary Algorithms

Recognition Algorithms Neural Networks, Expert-Systems

Bioinformatics DNA Analysis, EMBOSS, BLAST, SAMtools, Bowtie 2,

Bedtools 2, rpy2, Snakemake, PyMOL, MOE, ETE Toolkit