

Maximilian Fuchs MSc.

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Professional Experience

Senior Software Engineer

Software Engineer, employee at *3M Health Information Systems*

From August 2022

June 2020 - August 2022

- Implemented MLOps workflows in AWS, including building, training, and deploying large models Germany, Remote
- Collaborated with cross-functional teams to understand business requirements and translate them into technical solutions
- Mentored junior team members and provided technical guidance to help them succeed in their roles
- Acquired and prepared large medical datasets for use in training and evaluating deep learning models
- Designed and implemented new functionalities for a medical natural language understanding platform in Java and XML

Research Assistant, working student at *DE-CIX*

March 2018 – May 2020

- Implemented and tested SDN components for production in Python and C Frankfurt, Germany
- Wrote technical specification for federal cloud project “Gaia X”
- Performed Data Science tasks for research papers and business intelligence (SDN, System Engineering, Internet Infrastructure)

Research Assistant, working student at TU Darmstadt, UKP Lab

October 2017 – February 2018

- Developed a Deep Learning NLP Web Service in Python and Java Darmstadt, Germany
- Assisted in the course “NLP for the Web”, focused on using NLP algorithms, components and methods for developing Web applications (React, Node.js, GraphQL, Postgres, Stripe, Keycloak)

Research Assistant, working student at Telecooperation Lab, TU Darmstadt

February 2015 – March 2017

- Developed a microservice based video-streaming application Darmstadt, Germany
- Developed a *p2p-framework* for mirroring 3D models + camera feed (WebGL, WebRTC, ViewAR SDK)
- Developed an *editor* for 3D app assets (React, WebGL)

Web-Developer, freelancer at *Immowire UG*

July 2014 – October 2015

- Developed core-features for a social real estate *platform* Remote from Vienna, Austria (AngularJS, WebSocket, Node.js/Sails, OrientDB)

Education

Master of Science - Media Informatics

June 2018

Universität Wien (Thesis: Rnd of a cloud video object tracker [Vue.js, Docker, RabbitMQ, OpenCV])

Bachelor of Science - Media Informatics

October 2013

Technische Hochschule Mittelhessen (Thesis: Rnd of a Shopfront-Editor [backbonejs])

Skills

Responsive Web-Apps (*Typescript, React, Vue, Svelte, Electron, WebRTC, WebGL*)
Distributed Web-Services (*Node.js, NestJS, Python, AMQP, CQRS, Redis, SQL/NoSQL, data warehouse*)
API Design (*REST, GraphQL, openAPI, OAuth2*)
Testing (*Jest, Puppeteer, device farms*)
Deployment (*GCP, AWS, Docker/Kubernetes, CI/CD, serverless, edge computing*)
Misc (*cli-apps, data migration, UI/UX design, mentoring*)

Advocate of: Functional/reactive programming, QA/test-automation, microservice architecture,
event sourcing, small + frequent releases