# 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

 Developed and maintained a medical natural language understanding platform in Java and XML Germany, Remote

- Implemented MLOps workflows in AWS, including building, training, and deploying large models
- 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

#### 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

• Deployed machine learning models in a production environment

Darmstadt, Germany

- $\bullet$  Contributed to software development projects as part of a scrum team
- Tutored NLP programming classes for graduate students (Java, Python, Java Spring)

### Research Assistant, working student at Telecooperation Lab, TU Darmstadt

February 2015 - March 2017

• Developed a microservice based video-streaming application

Darmstadt, Germany

- Set up virtual network and computing infrastructure
- Developed and compared performance of schedulers for container orchestration using docker swarm and go
- Implemented and designed GUI elements for Microsoft Pixelsense (C++, Docker, Vagrant, Go, Docker Swarm, Bash)

# ${\bf Software\ development\ intern},\ part\text{-}time\ at\ sofasession\ GmbH$

February 2015 - June 2015

• Implemented signal processing components in C++

Vienna, Austria

 Tested and debugged software components for a real-time audio processing system (C++, Git, JavaScript, HTML/CSS)

## Education

## Master of Science - Internet- and Web-based Systems

 $July\ 2020$ 

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

#### Bachelor of Science - Network Engineering

March 2016

University of Applied Sciences Carinthia, Austria (Thesis: Rnd of a Shopfront-Editor [backbonejs])

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