Maximilian Fuchs MSc.

maxfuchs.net • maxfuchs@pm.me

Professional Experience

Senior Software Engineer *From August 2022*
Software Engineer, *employee at 3M Health Information Systems* *June 2020 - August 2022*

- Implemented MLOps workflows in AWS, Germany, Remote
  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

- 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
  (Java, Python)

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 schedulers for container orchestration and compared performance (Docker Swarm)

- Implemented and designed GUI elements for Microsoft Pixelsense

Software development intern, *part-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

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])

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