Maximilian Fuchs MSc.

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Professional Experience

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

- Developed and maintained a medical NLU platform in Java and XML *Germany, Remote*
- Implemented MLOps workflows in AWS, including building, training, and deploying large models
- Acquired and prepared large medical datasets for use in training and evaluating deep learning models
  (Java, Python, AWS, NLP, Computer-assisted coding, Physician documentation improvement, scrum)

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"
  (SDN, System Engineering, Internet Infrastructure, Unix/Linux, Kibana, Elastic, Kafka)

Research Assistant, *working student at UKP Lab, TU Darmstadt* *October 2017 – February 2018*

- Deployed machine learning models in a production environment *Darmstadt, Germany*
- 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*
- Developed and compared performance of schedulers for container orchestration using docker swarm and go (C#,
  Docker, Vagrant, Go, Docker Swarm, Bash)

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
  (C++, Git, JavaScript, HTML/CSS)

Education

Master of Science - Internet- and Web-based Systems *July 2020*
Technische Universität Darmstadt (Thesis: A data-driven approach for Route Selection at Internet Exchange Points)

Bachelor of Science - Network Engineering *March 2016*
University of Applied Sciences Carinthia, Austria (Thesis: Comparison of Dynamic Range Compressors for Normalization of Audio Signals)

Skills

Software Engineering (*Java, C#, C++, Python, Bash, Git, SQL, Unix/Linux*)
Network Engineering (*CCNA, Network monitoring, SDN, Network management*)
Natural Language Processing (*NLTK, UIMA, DKPro, Information extraction*)
Data Science (*Pandas, Jupyter, data visualization, data cleaning, deep learning, RapidMiner*)
Deployment (*AWS, Docker, CI/CD, serverless, edge computing*)
Misc (*cli-apps, requirements engineering, mentoring, web-scraping*)

event sourcing, small + frequent releases