

Education

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| 03/2018 – 10/2019 | Technische Hochschule Nürnberg Georg Simon Ohm
<i>Applied Research in Engineering Sciences, M.Sc.</i>
<i>Field of study: Computer Science</i> |
| 10/2014 – 03/2018 | Technische Hochschule Nürnberg Georg Simon Ohm
<i>Computer Science, B.Sc.</i> |
| 09/2005 – 07/2008 | Martin-Segitz-Schule Fürth
<i>Apprenticeship as IT-Specialist</i> |

Work Experience

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| 03/2018 – Present | Technische Hochschule Nürnberg Georg Simon Ohm
Department of Computer Science
<i>Research Master Student</i> <ul style="list-style-type: none">▪ Research goal: Development of a voice assistant system for elderly people and those in need of care using state-of-the-art machine learning and conversational interface technologies.<ul style="list-style-type: none">○ Evaluating the state of research in conversational interfaces and natural language understanding.○ Development of a chatbot system for elderly care.○ Optimization and development of machine learning models for text processing and text analytics.○ Development of a knowledge graph system for learning social relationships from natural language conversations.○ Evaluation of semi-humanoid robots for the use as a social companion in elderly care. |
| 02/2017 – 02/2018 | adorsys GmbH & Co. KG
<i>Working / Bachelor student</i> <ul style="list-style-type: none">▪ Bachelor thesis: „<i>Design and implementation of an efficient categorization system for bank bookings to create an added value for customers.</i>“▪ Development of a categorization system for bank bookings using Machine Learning with Python and Scikit-learn.▪ Java EE developer |
| 09/2016 – 02/2017 | adorsys GmbH & Co. KG
Department: Enterprise Software Development
<i>Student Intern / Software Developer (Full time)</i> <ul style="list-style-type: none">▪ Java EE developer▪ Proof of Concept to Consumer-Driven Contracts using <i>Pact</i>▪ Test optimization with JUnit and Mockito |

01/2016 – 08/2016

Fraunhofer IIS

Department: Communication Systems

Research Assistant

- Development of a framework extension for simultaneous tracking of RFID tags using Java EE (Project: *Multibeam-Antenna*)

07/2008 – 12/2015

Nürnberger Versicherung

Department: Web Application Systems

System Engineer

- Administration, maintenance and enhancement of the web- and application server infrastructure
- Project management, planning and implementation of new applications and systems
- Administration of the Web Application Firewall
- Development of software tools for automation of administration tasks

07/2008 – 12/2015

Nürnberger Versicherung

Apprenticeship as IT-Specialist

- Administration of the web-/application system infrastructure
- Administration of the windows server infrastructure and network components
- Administration of Enterprise Storage Systems

Skills & Proficiency

- Programming Languages: Python, Java, TypeScript
- Data Science & Machine Learning: Pandas, NumPy, Scikit-Learn, Keras, Tensorflow, Jupyter
- Databases: MySQL, Neo4J, MongoDB
- Web & Application server: Apache HTTP Server, Apache Tomcat, JBoss EAP, Microsoft IIS
- NLP and Chatbots: NLTK, spaCy, Genism, Rasa
- Other: Flask, pytest, Git, Spring-Boot, JUnit, Maven

Languages

German: Native Speaker
English: Advanced Level (C1)
French: Beginner level

Interests

- Data Science, Machine Learning and Artificial Intelligence
- Natural Language Processing & Understanding
- Software Engineering and Crafting
- Sports (Cycling, Climbing, Running)