

Dennis Thiessen

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EXPERIENCE

(Senior) Data, Analytics & AI Engineer

since 10.2023

Swisscom

Bern, Switzerland

- Implementation and operation of ETL pipelines using BODS, Kafka and Python.
- Architecture and operation of Teradata DWH.
- Providing data, analysis and dashboards for B2B stakeholders.

(Senior) Engineer Data Analysis

02.2020 – 01.2023

BOSCH Semiconductor Manufacturing

Dresden, Germany

- Developing applications in Python, Java and C# using OracleDB and Hadoop (ImpalaSQL) as data sources to support data analysis team with requested data and insights.
- Integrating distributed machine learning models with Docker, K8s and Ansible into data pipelines to enable fully automated image classification in 24/7 production and significantly reducing manual workload for line engineers.
- Application Owner of semiconductor data analysis applications and upstream data pipelines, providing training and support as well as stakeholder management to ensure efficient and effective use of the systems.
- Conducting proof of concepts, including setting up an Elastic-Stack using Docker and Apache Kafka for anomaly detection. Also implemented Monitoring and Alerting with Grafana, Prometheus and Loki.

Research Software-Engineer

09.2018 – 01.2020

Fraunhofer CML

Hamburg, Germany

- Development and Bug-Fixing of SCEDAS, a Decision Support System developed in C#, .NET, MS SQL and Entity Framework with mathematical heuristics for optimal planning in crew scheduling.
- Creating Microservices using Express.js, Java, Docker and SQLite for research applications.
- Introduced a build automation and deployment (CI/CD) pipeline with quality gates using Jenkins and Git.
- Conducted research in ML for Digital Twins in Shipping and NLP (Natural Language Processing).

DevOps-Engineer

07.2017 – 08.2018

Vizrt

Bergen, Norway

- Software Engineering in Python and C++ for a distributed backend video transcoding component.
- Developed automated integration & unit tests for Audio, Video & Streaming in Python to improve quality and long-term maintainability.

Software-Engineer

05.2015 – 06.2017

Generali

Hamburg, Germany

- Software Engineering for a process-oriented workflow web-portal using Java/J2EE, JavaScript and Oracle DB.

EDUCATION

Universität der Bundeswehr München

07.2012 – 09.2013

Master of Engineering in Computer Aided Engineering.

Munich, Germany

- Focus on Software Design and Software Engineering. Overall Grade: 1.6 (Good).
- Master's Thesis done at Tongji University, Shanghai about "Development of a Web-Based Remote Fault Diagnosis System" using Neural Networks, Particle Swarm Optimization and Fuzzy Networks. Grade: 1.0 (Very Good).

Universität der Bundeswehr München

10.2009 – 09.2012

Bachelor of Engineering in Computer and Communication Technologies.

Munich, Germany

PROJECTS

RiskAhead (discontinued) | *Android Studio, Java, REST, JSON, PHP, MySQL, Docker*

2015 – 2017

- Developed a full-stack android application using Java and RESTless Microservices
- Allows user to report incidents / hazards on Google Maps with Push Notifications to users
- Story was shared in VICE, see article (in german): [vice.com/de/article...](https://www.vice.com/de/article...)

SKILLS & CERTIFICATIONS

Languages: Python, Java, C#, SQL (Postgres, MySQL, Oracle, Impala for Hadoop)

Developer Tools: Git, Docker, Ansible, Kubernetes, ELK, JetBrains IntelliJ, Visual Studio

Libraries: Pandas, NumPy, Matplotlib, Plotly, SQLAlchemy, Mockito, SciKit-Learn, PyTorch

Certifications: AI for Trading Nanodegree (Udacity), IBM AI Engineering (Coursera), ITIL v3 Foundation Certificate (Servview), Certified Professional for Software Architecture (Foundation Level, ISAQB), Camunda BPM Process Engine (Basic & Advanced, Camunda Services), UiPath Developer Training (UiPath)

Spoken languages: German (native), English (fluent), Norwegian (Basic)