

Sebastian (Seb) Duerr

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MIT visiting grad, founder, NLP & ML engineer, senior product manager and international speaker passionately writing code.

Note: *Since November 15, 2022, I have full work authorization in the United States of America without requiring sponsorship.*

Experience

Founder and Full Stack Engineer, kindest.ai, remote, **since January 2021**

Supported by the German Federal Ministry for Economic Affairs and Energy as well as the European Union with a grant totaling €120,000. Responsibilities:

- Full Stack coding experience working mainly with JavaScript NextJS on Amazon Web Services (Amplify, Cognito, AppSync) with AWS Lambda backend microservices written in Python.
- Conducted multiple product analytics experiments; ran many A/B tests; manipulated large data sets (e.g., Webis Gmane with 153 million parsed and segmented emails) for fine-tuning deep neural nets.
- Implemented and deployed 25+ NLP based deep learning/machine learning microservices (mainly PyTorch, transformer and SpaCy based).

Visiting ML Student, Massachusetts Institute of Technology, remote, **May 2020 - April 2021**

Published three academic publications as main author in collaboration with Prof. Peter Gloor. Hands-on coding experience focusing on data science and analytics-related research working in Python with scikit-learn, OpenCV, PanDas, NumPy.

NLP Engineer, narrativa.com (an AI startup), remote, **September 2020 - March 2021**

- Increased variety of artificially generated news articles by implementing cutting-edge paraphrasing microservice through fine-tuning Google's T5 hands-on.
- Increased artificially created news articles' readability through implementing a context-sensitive sentence infiller based on bi-directional BERT model as a microservice.

Senior Product Manager, Raiffeisen Digital, Vienna, **March 2018 - April 2020**

Increased product variety of Raiffeisen Austria from four to nine online banking web apps/products reaching 80.000 customers per month as senior product lead (bank account onboarding, credit loan, credit card, insurance policy, leasing) by leading three feature teams (25 developers) assisted by two business analysts [Annual budget: 4MEUR].

Education

Ph.D. in Management Information Systems [**aborted 2017**], University of Bamberg, Germany

Started a Ph.D. that I did not finish. Published four academic peer-reviewed articles within 18 months in collaboration with Prof. Dr. Tim Weitzel, Prof. Dr. Heinz-Theo Wagner, and Prof. Dr. Daniel Beimborn.

M.Sc. in Management Information Systems '2016, University of Bamberg, Germany

Focus on Object Oriented Programming, finance, IT management.

Grade: very good (1.2 German grading) with honors.

B.Sc. in Management Information Systems '2014, University of Bamberg, Germany

Focus on Software Engineering, Project and Product Management.

Grade: good (1.7 German grading) [semester abroad in Management Information Systems Fall 2013, Corvinus University of Budapest, Hungary; graduated within 5.5 out of 7 regular semesters].

Note: My doctoral supervisor [Prof. Dr. Tim Weitzel](#) is ranked third as a researcher in Information Systems globally, and my alma mater University of Bamberg was ranked the [best university for Information Systems in Germany in 2020](#).

Misc

Coding Skills: Python (fluent; main experience with transformers, Haystack, SpaCy, Pandas, NumPy, sci-kit learn, fastAPI, PySpark, django, flask, streamlit), JavaScript (React/NextJS), AWS Amplify, GraphQL, Golang (basic), Google Cloud Platform.

Languages: German (native), English (full working proficiency), Spanish (fluent) and French (fluent).

Academic Papers: [7](#) | **Conferences:** 9 | **Blog Posts:** [4](#) (Medium) and [35](#) (own blog) | **Models** on HuggingFace: [36](#)

Trivia: Running my own IoT-based NGO luftdaten.at, ran 1000+ miles in 2021, lived in 7 and traveled 75+ countries.