

Sebastian (Seb) Duerr

duerr.sebastian@gmail.com | (857) 200-6706

Github: github.com/seduerr91 | Site: <https://sebastianduerr.com> | LinkedIn: [linkedin.com/in/sebastianduerr](https://www.linkedin.com/in/sebastianduerr)

**Authorized to work in the United States of America without requiring sponsorship*

EDUCATION

Massachusetts Institute of Technology

2020-2021

Remote Visiting Machine Learning Fellow at Center for Collective Intelligence, Machine Learning

Published 3 academic publications as main author in collaboration with Professor Peter Gloor utilizing hands-on coding experience focusing on natural language processing, data science and analytics-related research working in Python with scikit-learn, OpenCV, PanDas, and NumPy.

University of Bamberg, Germany

2011-2017

Doctor of Philosophy (PhD) in Management Information Systems (did not complete)

Published 4 academic peer-reviewed articles within 18 months in collaboration with Professor Dr. Tim Weitzel, Professor Dr. Heinz-Theo Wagner, and Professor Dr. Daniel Beimborn. Started a Ph.D. but did not complete it.

Masters of Science in Information Systems, Graduated with honors

Bachelors of Science in Information Systems, Semester at Corvinus University of Budapest, graduated in 1.5 semesters less

PROFESSIONAL EXPERIENCE

CORDIAL - Lead Developer AI & Automation

January 2024 - May 2025

- Spearhead technical and organizational strategies to position Cordial as an AI-native platform while optimizing operational costs.
- Conduct in-depth analyses of internal processes, converting them into streamlined AI workflows across core business units, including Email Production, Solutions, and Customer Excellence.
- Led the implementation of the message understanding initiative, facilitating programmatic processing of millions of messages for reporting purposes. Collaborated with SREs, frontend, and backend teams to design and develop related services leveraging FastAPI.
- Managed AI team's sprint ceremonies, developed the team's product roadmap, and ensured alignment with product management, organizational goals, and other cross-functional teams.
- Integrated prediction pipelines, such as send time optimization, achieving a 30% increase in clicks for millions of customer contacts.
- Developed and deployed various AI-powered tools resulting in a 5 out of 5 rating in the renowned Forrester 'The Wave' report of 2024.

STOKE - Senior NLP Engineer

July 2023 - December 2024

- As NLP lead, I integrate and deliver LLM into our various product offerings.
- Designed complex keyword and title scoring algorithms and modeled data for an Amazon seller product listings optimization feature.
- Upgraded backend AI services written in Golang and set up new services in production.

CORTEVA - Senior Data Engineer (Contract)

January 2023 - July 2023

- Member of AI lead team responsible for integrating GPT-4 endpoints in a proprietary data-enabled conversational retrieval setup.
- Ingestion of Data Catalog for Corteva's 21.000 employees hosted on AWS. Integrated 200 different endpoints, central business glossary and pipelines.
- Developed code for Microcontrollers to collect moisture on BLE and via a host machine (Raspberry Pi) which was adopted for 10.000 sensors.

KINDEST.AI

January 2021 - July 2023

Founder / Full Stack Engineer supported by prestigious German and European scholarships.

RAIFFEISEN DIGITAL

March 2018 - April 2020

Chief Product Owner (senior project manager) responsible for an annual budget of \$5M.

TECHNICAL OVERVIEW

Stack: Experienced with AWS (Cognito, DynamoDB, Gateway, AppSync, Lambda, Amplify, S3, Fargate, CloudWatch, Glue, Bedrock), GCP (BigQuery, Cloud Engine, Cloud Storage), Terraform, dbt, prefect, airflow, gitlab, github, docker, terraform, visual studio code, datahub, kafka, spark, mu_editor, arduino ide, sketch, cursor.

Python: LangChain, transformers, Haystack, SpaCy, Pandas, NumPy, Pydantic, scikit-learn, FastAPI, PySpark, Django, Flask, Streamlit, JSON, PyTorch, OpenAI, Requests, CircuitPython, MicroPython, SQL/Postgres, SQLAlchemy, OpenAPI, Black, Rich, Pre-commit.

JavaScript: Next.js, React, Express, node-fetch, npm, AWS Amplify, Stripe, Momento, Prettier.