

# Philipp Singer

## Resume

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### Current Position

**10/2022 until now** Senior Principal Data Scientist at H2O.ai, Mountain View, USA, Remote

**04/2020 – 10/2022** Senior Data Scientist at H2O.ai, Mountain View, USA, Remote

- Initiator and core developer of no-code **enterprise deep learning platform H2O Hydrogen Torch**, implementing routines to allow customers fine-tuning deep learning models in computer vision, nlp and audio
- Core open source contributor for **H2O LLM Studio**, a popular platform and framework for **fine-tuning large language models**: <https://github.com/h2oai/h2o-llmstudio>
- Customer facing data science activities, supporting and consulting proof of concepts and large-scale projects
- Research, teaching and support in various machine learning related topics

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### Relevant Previous Positions

**03/2018 – 03/2020** Senior Data Scientist at Uniqa Insurance Group, Vienna, Austria

**05/2017 – 02/2018** Data Scientist at Uniqa Insurance Group, Vienna, Austria

**02/2015 – 04/2017** Post doctoral researcher at the Data Science group of GESIS, Cologne, Germany

**09/2015 – 11/2015** Visiting researcher at USC Information Sciences Institute, Los Angeles, USA

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### Education

**11/2011 – 02/2015** Ph.D. in Computer Science (**with distinction**) at Graz University of Technology, Austria; Dissertation: Modeling Aspects of Human Trails on the Web, Advisor: Prof. Markus Strohmaier; **Best Paper Award** at CORE A\* WWW conference

**3/2010 – 11/2011** Diplom in Software Development and Business Management (**with distinction**) at Graz University of Technology, Austria; Master's Thesis: Time Series Analysis of Online Social Network Data and Content, Advisor: Prof. Markus Strohmaier

**10/2006 – 3/2010** B.Sc. in Software Development and Business Management at Graz University of Technology, Austria; Advisor: Prof. Michael Granitzer

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### Kaggle Achievements

**Rank** World rank 1 on global Kaggle competition leaderboard out of 200,000 competitors

**Wins** Winner of **ten** Kaggle competitions

**Medals** Achieved overall **more than 30 gold medals** in different competitions

**Competitions** Participated and won competitions in NLP, Computer Vision, and Tabular, including topics such as LLM & RAG fine-tuning, Video Sports Predictions for NFL, Medical Image Detection, Whale Identification, and many more: <https://kaggle.com/philippsinger>

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### Skills

**Deep Learning & ML** Expertise in training (foundation and finetuning) deep learning models from various domains such as in **natural language processing** (LLMs, classification/regression, token classification, sequence to sequence, embedding models, etc.), **computer vision** (classification/regression, object detection, semantic segmentation, video prediction, metric learning, etc.), or **tabular** (gradient boosting, time-series, clustering, etc.)

**Engineering** Full stack, **Python**, **PyTorch**, MLOps, DevOps, Docker/Cloud, Proxmox, JS/NextJS/HTML/CSS, FastAPI, SQL/MongoDB, etc.