Sebastian Hönig

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Experience

Bloomberg 10/2025 – Present
Software Engineer *Frankfurt, Germany*
- Working on high-throughput, low-latency market data ingestion systems interfacing directly with exchanges.
- Automating machine routing workflows to reduce operational load on SRE teams and improve deployment safety.

Bloomberg 06/2024 – 09/2024
Software Engineer Intern *Frankfurt, Germany*
- Designed and implemented an end-to-end pipeline for daily correlation analysis of regulatory datasets, uncovering a five-year misclassification in regulatory reporting.
- Deployed an automated workflow and internal web application to the cloud, improving usability for the Risk Operations team.

Amazon, Search 08/2022 – 10/2022
Software Engineer Intern *Berlin, Germany*
- Improved observability for a large-scale production service handling more than 10,000 transactions per second.
- Built service visualizations that reduced engineering time spent on support tickets by 20%.

Goethe University 03/2021 – 03/2023
Teaching Assistant *Frankfurt, Germany*
- Tutored weekly sessions in Algorithms & Data Structures and Computer architecture.

Publications

Hönig S. et al. (2026). *Chiron3D: an interpretable deep learning framework for understanding the DNA code of chromatin looping. bioRxiv.* Under review at *ECCB 2026.*

Boyle A., Gupta I., **Hönig S.**, Mautner L., Amara K., Cheng F., El-Assady M. (2024). *iToT: An Interactive System for Customized Tree-of-Thought Generation. IEEE 2024 NLVIZ Workshop.*

Education

ETH Zurich 09/2023 – 09/2025
M.Sc. Computer Science *Zurich, Switzerland*
- GPA 5.5/6.0
- Master's Thesis: developed *Chiron3D*, an interpretable model for predicting CTCF-mediated chromatin loops and probing nucleotide-level determinants of loop dynamics.
- Selected coursework: Machine Learning for Genomics, Machine Perception, Interactive Machine Learning.

Goethe University 04/2020 – 08/2023
B.Sc. Computer Science *Frankfurt, Germany*
- GPA 1.1/1.0
- Bachelor's Thesis: Mapping between Vision and Language Models and Human Brain Responses.

Goethe University 10/2017 – 07/2021
B.Sc. Economics *Frankfurt, Germany*
- GPA 1.4/1.0

Awards

Rainer-Kemp-Prize 2023
- Awarded for graduating as the top student in B.Sc. Computer Science at Goethe University.

German Academic Scholarship Foundation 11/2021 – 09/2025
- Selected for the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes), Germany's leading scholarship foundation for academically outstanding students.

Skills

Languages: Python, C++, SQL, JavaScript
Technologies: PyTorch, Inspect, TransformerLens, NumPy, Pandas, Jupyter, Docker, Git, REST