

Christian Bernhard

christian.bernhard97@web.de | 0177 8028796 | www.christian-bernhard.com

Education

M. Sc. Computer Science - Ludwig-Maximilians-Universität München 2022 – 2024

- **Thesis at BMW:** Fine-Tuning Retriever and Generator Components in RAG: A Cross Domain-Study
- **Focus: Artificial Intelligence** | Software Engineering, Quantum Computing (Grade: 1.3)

B. Sc. Business Informatics – University of Applied Sciences München 2018 - 2022

- **Bachelor thesis: Natural Language Processing** – Effort Estimation in Agile Projects (Grade: 1.0)
- **Nominated:** Bavarian Elite Academy, Scholarship model of the I.C.S. e.V.

Skills

Languages: Python, Swift, Java, JavaScript

Technologies: PyTorch, Git, Docker, Kubernetes, React.js, MongoDB, Next.js, Express.js, FastAPI

Focus: writing clean, reliable and reusable code

Work Experience

AI Engineer – Cancom

05/2025 – now

- Designing and delivering enterprise-grade AI solutions (LLMs, RAG, Agents) across diverse industries

AI Researcher – BMW

10/2024 – 05/2025

- Fine-Tuning Retriever and Generator Components in RAG
- Implementation of an Evaluation System to evaluate LLMs and RAG systems

Head of Operations – Aqarios

04/2023 – 04/2025

- started as backend developer, developing different backend microservices
- led a team of 10+ software engineers and managed the development of the Luna Platform — a PaaS solution that enables businesses to seamlessly integrate with quantum computing backends and accelerates quantum application development: www.docs.aqarios.com
- lead our go to market strategy in 2024 and supervise our Marketing and HR department
- take part of conventions, represent the company, lead technical demos for our clients and partners like SAP, BASF, Siemens, BMW, etc.
- Conducted technical interviews and recruited software engineers

Founder – Ainleuchtend

09/2023 – now

- As part of my self-employment as an AI consultant, I advise companies on AI projects, develop individual AI software and hold training courses on AI throughout Germany. More information can be found here: <https://www.ainleuchtend.de/>

Software Engineer – Adesso SE

09/2020 – 03/2023

- Developing a deep learning project; Developing and launching the iPadOS app "wryte" from scratch
- Team Leader for an international team, responsible for the App Store launch and updates
- appearance on the german tv-version of shark tank, temporary rank 1 Appstore in the education section, over 100k downloads

Engineering Fellow – Tech4Germany Fellowship Program (Berlin)

08/2022 – 11/2022

- 3 months fellowship program in Berlin - 32 talents develop prototypes for concrete digital projects of the federal administration
- Developed a web-app dashboard for the Federal Ministry of Finance

Business Intelligence - Swiss Life

04/2020 – 09/2020

- SQL test scripts, Data Warehousing

Datamanagement for Machine Learning – ProSiebenSat. 1

08/2019 – 12/2019

- Supporting the agile development team in various data technology projects

Further Programming Expertise

Courses

- **Generative AI with Large Language Models** - Deeplearning.AI & AWS
- **Sequence Models** - Deeplearning.AI
- Multiple Courses from Deeplearning.AI about RAG Framworks like LangChain or LlamaIndex, etc.
- Neural Networks and Deep Learning + Hyperparameter Tuning, Regularization, Optimization
- React Native & Angular - The Complete Guide

Furthermore

- Attended HackaTUM; **Kaggle - Computer Vision Hacking the Human Vasculature**

Languages: German (Native), English (Fluent), Spanish (Beginner), Chinese (Beginner)