Caspar Emanuel Fritzen

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EDUCATION

2020 - 2023	**Technical University of Munich** MSc Technology and Management
	• 50 / 50 computer science major and energy markets business specialization
	• Thesis – dev. a full-stack web analytics platform for an ecolabel w/ major German insurer
	• Received the best grade attainable for the master thesis (1.0)
2017 - 2020	**Technical University of Munich** BSc Technology and Management
	• Project studies on web-development (PHP, SQl, JS, HTML) and databases
	• Completed EIDI (top 10% of class) and PGDP with 2.0 and 2.3 respectively (Java)
	• Thesis on statistical analysis for a startup (algorithms implemented in R / Python)
2016 - 2017	**Technical University of Munich** Studium Naturale/Generale
	• Semester for orientation and to learn more about potential degrees at TUM
2015 - 2016	**Bundeswehr Gebirgsjäger FWDL** voluntary army service as a Mountaineer in Mittenwald, Germany
	• Completed year with the rank "Hauptgefreiter Gebirgsjäger"
2013 - 2015	**Ellesmere College** International Baccalaureate (IB) in Ellesmere, Shropshire, UK
	• Graduated with 35 IB points, top 3 of the year equivalent to 1.9 (German Abitur grade)

PROGRAMMING EXPERTISE

Sep 2021- Dec 2021	**Internship at Playasia in Hong Kong SAR – web / backend development**
	• Web / backend development: Implemented, customized, and deployed an email marketing system using PHP and Laravel.
Oct 2019- Jan 2020	**Project studies at ALFASOLUTIONS in Linz, Austria (three-month fulltime)**
	• Implementation of a web-based accounting system for a client
	• Delivered a fully-fledged internal social and accounting platform
2018- 2019	**Practical course in the foundations of programming (one semester, java)**
	• Developed a Java-based search engine using Google's PageRank algorithm, demonstrating proficiency in algorithms and data structures.

WORK EXPERIENCE

Oct 2023- now	**Software Engineer – freelance at Friedl & Company a TUM spinoff company**
	• Further refinement and buildout of the thesis project: Full stack development of the web analytics platform for an ecolabel with the biggest German insurer, including Stripe payments integration.
Feb 2022- now	**Junior Engineer -part time + remote- at TIDEFI / tidepay– from DEX to RWA tokenization**
	• Developed a sophisticated NodeJS Discord bot for community growth
	• Guided the pivot to tidepay, a RWA tokenisation company and spearheaded AI/LLM efforts
Nov 2021	**Web-development for Hansons Robotics Hong Kong SAR – SophiaDAO NFT marketplace**
	• short-term sprint-based web development sessions to create a website + marketplace for the SophiaDAO intended for the sale of hundreds of NFTs created by the humanoid robot "Sophia"
2021- now	**Software Engineer + technical advisor for loyal – app / web / infrastructure development**
	• consultation for cloud architecture, native iOS and Android apps, backend / dashboard for clients (see loyal-app.de for reference) - loyal systems innovation GmbH Hamburg
Oct 2018	**Internship at Aerius GmbH HVAC systems for marine vessels in Saint Nazaire, France**
	• planning and installing of hvac systems in multiple cruise vessels by royal caribbean cruises ltd. at the Saint Nazaire port in France

SKILLS & INTERESTS

language	German – C2, English – C2, Latin – Latinum, French – A1, Italian – A1
tech	Python, Django, R, Docker, SQL, Java, PHP, Laravel, JS, TS, NodeJS, NextJS, AWS, GCP, Git
interest	LLMs, blockchain, DAG, renewable energy, architecture, economics, EVs, energy storage, ML, tennis, mountaineering, mountain-biking, swimming, fitness, photography