

# Caspar Emanuel Fritzen

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## EDUCATION

- 2020 - **Technical University of Munich** MSc Technology and Management
- 2023
- 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 - **Technical University of Munich** BSc Technology and Management
- 2020
- 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 - **Technical University of Munich** Studium Naturale/Generale
- 2017
- Semester for orientation and to learn more about potential degrees at TUM
- 2015 - **Bundeswehr Gebirgsjäger FWDL** voluntary army service as a Mountaineer in Mittenwald, Germany
- 2016
- Completed year with the rank “Hauptgefreiter Gebirgsjäger”
- 2013 - **Ellesmere College** International Baccalaureate (IB) in Ellesmere, Shropshire, UK
- 2015
- Graduated with 35 IB points, top 3 of the year equivalent to 1.9 (German Abitur grade)

## PROGRAMMING EXPERTISE

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

## WORK EXPERIENCE

- Oct 2023- **Software Engineer – freelance at Friedl & Company a TUM spinoff company**
- now
- 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- **Junior Engineer -part time + remote- at TIDEFI / tidepay- from DEX to RWA tokenization**
- now
- 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- **Software Engineer + technical advisor for loyal – app / web / infrastructure development**
- now
- consultation for cloud architecture, native iOS and Android apps, backend / dashboard for clients (see [loyal-app.de](https://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, NodeJS, NextJS, GraphQL, AWS, GCP, Git
- interest LLMs, blockchain, DAG, renewable energy, architecture, economics, EVs, energy storage, ML, tennis, mountaineering, mountain-biking, swimming, fitness, photography