Jonathan Tybirk



2800 Kgs. Lyngby



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jonathantybirk.com ↗

Profile



Technical skills

C# / .NET Python / PyTorch / LangChain SQL / PostgreSQL TypeScript, React, HTML, CSS Git, Markdown Google Cloud, AWS

Danish, native English, fluent Spanish, beginner

- Chairman of the student council for 250 students at I greatly improved efficiency over previous years by prioritizing the delegation of responsibilities to small taskgroups.
- 4-month army enlistment on Bornholm. This taught me to teamwork effectively even under stressful conditions. I am now continuing my training in the Danish Home Guard.
- as guitarist and front singer - this has helped me get over a fear of public speaking.
- Cultural insight from solobackpacking many times across Europe. I like working with international and diverse groups of people.
- my programming students!

Languages

German, beginner

Additional qualifications

- Gymnastikhøjskolen i Ollerup.
- Experience performing music

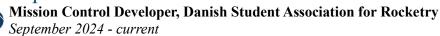
• Great joke-teller according to



Education

- BSc Artificial Intelligence and Data student, Technical University of Denmark September 2023 - current
- GPA: 11.1 / 12
- Taking extended courses in Algorithms and Data Structures
- 6th-place finisher in the Danish National Championship in AI 2024 under team name Powered by SmartFridge

Experience



- Implementing unit testing and logging in a large C# codebase
- Refactoring old code to follow sensible structure and **design patterns**
- Student Assistant, Copenhagen Applied Research A/S April 2024 - current
- Implementing Python automation scripts for data collection and processing
- Teaching Assistant, Technical University of Denmark January 2024 - current
- Teaching 120 students Python Programming as Assistant Lecturer
- Teaching data science and machine learning as Teaching Assistant in Statistics and Intelligent Systems
- Helped convert the Statistics textbook and exercises from R to Python

Projects

- Full-Stack Website (React, TypeScript, CSS, PostgreSQL) July 2024 - current
- A dynamic self-deployed website to show off my projects
- Integrated **frontend** and **database** with appropriate **code structure**
- Check it out at <u>ionathantybirk.com</u> ▶
- . Modelling of Membrane Degradation (NumPy, pandas, SciPy, scikit-learn) Aprisium March 2024 - May 2024
 - Paid contract work to data model for Aprisium Pte. Ltd., a Singapore-based environmental services start-up
 - Extensive code documentation and data visualizations (Matplotlib)
 - **Self-Operating Computer (LangChain, OpenAI API)** February 2024 - May 2024
 - Program to visually perceive a computer screen, and navigate using mouse, keyboard, and GPT-4V reasoning
 - Built with **Python** with robotic process automation start-up *Symbolik.ai*