Jonathan Tybirk

ionathantybirk@gmail.com



2800 Kgs. Lyngby



linkedin.com/in/jonathantybirk ↗



github.com/jonathantybirk ▶ jonathantybirk.com ↗

Profile



Technical skills

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

Languages

Danish, native English, fluent Spanish, beginner German, beginner

Additional qualifications

- Chairman of the student council for 250 students at Gymnastikhøjskolen i Ollerup. 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.
- Experience performing music 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.
- Great joke-teller according to my programming students!



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

Mission Control Developer, Danish Student Association for Rocketry September 2024 - current

- 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>jonathantybirk.com</u> ≯

Modelling of Membrane Degradation (NumPy, pandas, SciPy, scikit-learn) 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*