Jonathan Tybirk

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Profile

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** in a team
- 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 Computer Programming as Assistant Lecturer
- Helped convert the Statistics course 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** through **Node.js** with appropriate **code structure**
- Check it out at jonathantybirk.com ↗

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*

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 improved efficiency by delegating responsibilities to small task groups.

- Certified personal trainer, having worked with regular people to promote health through exercise and nutrition without toxic self-criticism.

- Cultural insight from solo-backpacking many times across Europe. I like working with international and diverse groups of people.

- 4-month army enlistment on Bornholm. This taught me to teamwork effectively even under stressful conditions.

- Experience performing music as guitarist and front singer - this has helped me get over a fear of public speaking.

- Great joke-teller according to my programming students!