

Jakob Stender Guldborg

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Experience

- 2024 – present **Special Consultant**, DIKU
Enabling faculty to work more efficient with data pipelines setting by introducing Prefect enabling easy distributed computation and clear insights into errors making debugging a breeze.
- 2024 **Data Platform Engineer**, RES
Modernized a data platform and showed the feasibility of streaming data-processing on IOT devices, allowing stakeholders to see data live.
- 2022 – 2024 **IT Developer**, Evaxion Biotech A/S – Copenhagen
- Implemented Docker Swarm to reduce deployment cycles from months to days.
 - Launched and managed an HPC cluster with systematic job queuing for efficient compute utilization.
 - Managed infrastructure using Ansible.
 - Initiated the company's first centralized data management system (data warehouse), consolidating scattered storage and enabling leaner processes.
- 2021-2022 **Student Developer**, Evaxion Biotech A/S
Developed internal tools using Python and Django; managed PostgreSQL databases and Django Rest Framework with FastAPI integrations.
- 2020 **Student Developer**, DIKU (Datalogisk Institut v. Københavns Universitet – Copenhagen)
Developed an automated assignment correction and evaluation framework in Canvas LMS, enhancing the efficiency of academic staff.
- 2020-2021 **TA in Applied Programming**, Copenhagen University
Educated students in C++ programming for data-intensive applications.
- 2018-2020 **Software Developer**, Obital – Copenhagen
Worked with pioneering eye-tracking for mobile applications. This included coding efficient backend algorithms and frontend for mobile applications, enabling disabled individuals to control their homes using only their eyes.
- Private Tutor in “**Modelling and Analysis of Data**”, Copenhagen University
Taught mathematical/statistical concepts and Python implementation, emphasizing problem-solving and coding skills.

Education

- 2018–2022 **Copenhagen University**, MSc. in Bioinformatics (unfinished)
Specializing in computer science with a focus on machine learning and medical image analysis, I completed my thesis in medical image analysis in collaboration with Rigshospitalet, achieving the highest grade (12). This experience made me realize my passion lies in the broader aspects of computer science, specifically machine learning and automation, leading me to pursue a career path that aligns more closely with these interests.
- 2014-2018 **Copenhagen University**, B.Sc. in Naturvidenskab og IT (Scientific Computing)

Interdisciplinary education with a strong foundation in mathematical modeling, computer science, and a further specialization in physics.

2010-2013 **Faaborg Gymnasium**, STX in Physics, Math, and Chemistry

Volunteering

2012-2024 **Volunteering at Roskilde Festival – Roskilde**

Co-managed IT post-festival operations, leading a team of 30 volunteers in logistics and equipment dismantling and retrieval.

2019-2022 **Housing Community Chairman – Copenhagen**

Managed budgets and led large-scale renovation projects, demonstrating leadership and organizational skills.

2018 **Volunteering Tutor – Copenhagen University**

Provided private tutoring in mathematics and physics, specializing in vector analysis and differential equations.

2014 **Volunteering for “Mellemfolkeligt Samvirke” – El Salvador**

Engaged in community education and development projects, highlighting adaptability and cross-cultural communication skills.

Extra Curricular Activities

2024 **NixOS & Flakes Book: An unofficial book for beginners**

Solid foundation to work with the reproducible and immutable NixOS, Nix, and Nix-Flakes

2023 **TalkPython**

Courses on Sphinx Documentation, Cookiecutter, Ansible, Pytest, FastAPI, Django, and Twilio

2022 **RefactorGuru**

Online book and material on design patterns and refactoring strategies