



Jeppe Klitgaard

Bachelor of Science,
Physical Natural Sciences

- February 6th, 1997
- Cambridge, UK
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Social Network

- Jeppe Klitgaard
- JeppeKlitgaard

Languages

- Danish
- English
- German

Hard Skills

- Programming
- Data Science
- Physics
- Mathematics
- Electronics

Soft Skills

- Problem solving
- Teamwork
- Dependability
- Earnestness

Introduction

Ambitious student with interests in Natural, Computer & Data Sciences, as well as Society & Culture.

I have a teachable and well-rounded profile with experience in organisational, technical, and academic work through a variety of activities including political work, board work in Denmark's Academy of Talented Youth and the Nordic Study Abroad Community, participation in the European CanSat Competition & internships within FinTech, academia, and industry.

Work Experience

- 2022 – **Research and Development Scientist** NanoNord A/S
Research and development pertaining to Nuclear Magnetic Resonance applied to the **Tveskaeg** system. Design and manufacturing of an automated hardware platform to precisely map the local magnetic field inside 1 T Halbach array magnet to improve passive shimming outcomes. Initial work on novel in-situ calibration routine of high-precision Hall Effect sensors using NMR frequency lock.
- 2021 **Research Intern** University of Cambridge
10-week summer internship with **Prof. Pietro Cicuta** and **Prof. Pietro Liò** at University of Cambridge. Developed and designed **CartER** , an open-source and open-hardware physical and simulated cartpole platform for experimentation and investigation of reinforcement learning algorithms.
- 2020 **Software Engineering Intern** Intropic Limited
8-week summer internship in a London-based FinTech startup. Introduced and authored a variety of Python projects dealing with REST API development, data processing and created a streaming data pipeline in Kafka/Faust.
- Jan. 2018 – Sep. 2019 **Substitute Teacher** Ans & Grauballe Skole
Fixed temporary position in Ans Skole's Special Education section. Also worked as a regular substitute teacher in the public school section. Primarily taught STEM and English, ages 13 – 16.
- 2016 – 2019 **Language Camp Organiser and Teacher** Rejsby Europæiske Efterskole

Education

Higher Education

- 2019 – 2022 **BA (Hons) Natural Sciences** University of Cambridge, UK
Bachelor of Science in Physical Natural Sciences with subject choices being Physics and Mathematics.
Student Representative at Cavendish Laboratory (years 1 – 3).














Secondary Education

- 2014 – 2017 **Danish STX** Silkeborg Gymnasium, Denmark
Studentereksamen (STX) with Physics A, Chemistry A, Mathematics A.
Master Classes in Mathematics, Physics, and Chemistry. Part of the CanSat competition team.
GPA: 12.2 / 12.0 (extra credit).
- 2014 – 2017 **Academy of Talented Youth** Denmark
Extracurricular organisation providing advanced classes, lectures, and camps for academically gifted students in collaboration with universities and leading companies.
Student Representative to the Advisory Board. Represented ≈200 of the region's most talented students and helped set out new initiatives for the organisation.




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Programming

 Python 3	● ● ● ● ●
 Linux	● ● ● ● ●
 bash/zsh/fish	● ● ● ● ●
 Git	● ● ● ● ●
 Machine Learning	● ● ● ● ●
 SQL	● ● ● ● ●
 Rust	● ● ● ● ●
 C++	● ● ● ● ●
 C	● ● ● ● ●
 TypeScript	● ● ● ● ●
 JavaScript	● ● ● ● ●
 CSS3	● ● ● ● ●
 HTML5	● ● ● ● ●

Design

 Fusion 360	● ● ● ● ●
 Cura	● ● ● ● ●
 KiCad 6	● ● ● ● ●

Technologies

Matplotlib	Faust	Async
Django	Jupyter	Mkdocs
FastAPI	REST	Scrapy
Apache Kafka	Docker	Pandas
Scipy	Numpy	LMFIT
*NIX	Debian	Git
Eigen3	PyTorch	LaTeX
PlatformIO	Serial	Arduino
stable-baselines3	PettingZoo	
Jsonnet	Traefik 2	MathJax 3
Unicode	Continuous Integration	
Protocol Buffers	Jax	

Awards

2021	1 st place in Research Skills Presentation	Dept. Physics, Cambridge
2017	Recognition of Extraordinary Community Effort	Silkeborg Gymnasium, Board
2017	Recognition of Extraordinary Academic Achievement	Silkeborg Gymnasium, Board
2015	3 rd place at European CanSat Competition	European Space Agency

Other Certifications

2014	IGSCE - English As A Second Language A*(a*) grade	Cambridge Examinations
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Open Source Contributions

2022 –	Font Compilation Tooling Development of a dockerised font compilation toolset that enables compilation of vector files into color-fonts in a variety of formats using Google's nanoemoji tool.	OpenMoji
2022 –	Continuous Integration and Release Tooling Tooling to build PyFFTW using GitHub Actions on various platforms.	PyFFTW
2013 –	Personal Projects and Smaller Contributions Throughout most of my adolescent and adult life I've contributed to various Open Source projects and authored a wide variety of different projects. Most of this activity can be found on my GitHub profile.	GitHub Profile

Association and Voluntary Work

2018 –	Chair of the Board Chair of the Board 2023 onwards, Senior Advisor and Member of the Board 2021 – 2022, Director 2019 – 2021, Organiser 2018 – 2019. Providing guidance and expertise to the NSAC team. Previously I have worked with website development, internal IT setup and organisation of the annual Nordic Study Abroad Conference.	Nordic Study Abroad Community
2015	Senior Mentor Taught primatology to school children in collaboration with Aarhus University	The Science Club, Royal Danish Academy of Sciences
2014 – 2016	Youth Politician Active board member in the local organisation. Elected as representative to the National Executive of the Social-Liberal Youth Party of Denmark.	Social-Liberal Youth Party of Denmark

References

2021	Research Intern Letter of recommendation available upon request.	University of Cambridge
2020	Software Engineering Intern Letter of recommendation available here: intropic.pdf	Intropic Limited
2018	Teacher Letter of recommendation available here: ans_skole.pdf	Ans Skole

Other Documents

Academy of Talented Youth	diploma_academy_talented_youth.pdf
Cambridge Examinations	diploma_IGSCE_english.pdf
European Space Agency	diploma_cansats_in_europe.pdf
Royal Danish Academy of Sciences	diploma_science_club.pdf
Silkeborg Gymnasium	award_community_effort.pdf
Silkeborg Gymnasium	diploma_highschool.pdf
Silkeborg Gymnasium	diploma_masterclass_phys_chem.pdf

March 31, 2023

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