

Mads Saua Balto

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Education

Computational Science (Master's)

University of Oslo

Expected Completion: June 2025

Oslo, Norway

Physics and Astronomy (Bachelor's)

University of Oslo

June 2023

Oslo, Norway

Skills

- **Python** for scientific computing and simulations, regex, web scraping, developing and deploying web applications, and data visualization.
- **Docker** for containerizing applications.
- **AWS** for cloud computing with S3, EC2, SageMaker, and Lambda.
- **C** for high-performance computing, with experience in vectorization, threading, GPU programming (CUDA), and parallel programming frameworks (MPI, OpenMP).
- **Machine Learning**: Developed and implemented linear and logistic regression models, feed-forward neural networks, and convolutional neural networks for various applications, including image classification and automatic speech recognition. Experienced with PyTorch and writing models from scratch.

Work Experience

Studentmedarbeider (Student Employee)

Tet Digital As (Ruter As)

August 2024-May 2025

Sommerstudent (Summer Intern)

Tet Digital As (Ruter As)

June 2024-August 2024

- Collaboratively developed and implemented Python code within AWS SageMaker to automate the transcription of customer service call recordings using an automated speech recognition model. This workflow is designed to integrate seamlessly into larger systems, enabling further processing for deeper customer insights.
- Contributed to the ongoing project of fine-tuning the ASR model in SageMaker, focusing on improving its effectiveness in accurately transcribing diverse customer interactions.

Hotel Employee

Elva Eiendom AS

June 2014 - August 2023

Tana, Norway

- My primary responsibilities in this position included registering bookings, as well as checking in and out guests, for both the hotel and the campsite.
- 20% position
- Worked during all holidays from 2014-2023
- Weekend substitute from 2016-2020

Student Volunteering

- Poster Master in the Physics Association (UiO)
- Events organizer in the Physics Association
- Secretary in the Physics Department Council
- IT Chief in the Physics Department Council
- Representative in the Program Council for Bachelor's in Physics & Astronomy
- Representative in the Program Council for Master's in Computer Science
- Representative in the leadership team for CCSE (Centre for Computing in Science Education)

Hobbies

Old School Runescape, bouldering, chess, making music, enjoying albums, mountain camping, and investing.