

Vilhjalmur A. Vilhjalmsson

SOFTWARE ENGINEER · MACHINE LEARNING

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Education

NTNU(Norwegian University of Science and Technology)

Trondheim, Norway

M.Sc. COMPUTER SCIENCE - SPECIALIZED IN ARTIFICIAL INTELLIGENCE

Aug. 2021 - PRESENT

M.Sc. APPLIED MATHEMATICS AND PHYSICS - SPECIALIZED IN INDUSTRIAL MATHEMATICS

Skills

Programming languages Python, C/C++, Go, JAVA, Swift

Frameworks & libraries Tensorflow, PyTorch, React, Numpy, Pandas, Next.js, Google Cloud Platform

Languages English (native), Norwegian (native), Icelandic (native), Mandarin (intermediate)

Experience

NorwAI - Norwegian Research Center for AI Innovation

Trondheim, Norway

AI RESEARCH ASSISTANT

Jul. 2023 - Present

- Applied Machine Learning models to the norGPT dataset to generate metadata
- Optimized pipeline for processing of dataset, reducing processing time from over 1hr to less than 30s
- Developed a full stack website for searching the norGPT dataset with Next.js and React

Favn Software

Trondheim, Norway

SOFTWARE ENGINEER

Feb. 2022 - Present

- Implemented a dynamic app bar in React and updated preview templates with the new app bar
- Optimized retrieval of events for real-time workflows, and implemented a scalable data pipeline into BigQuery for batch workflows
- Added CSRF protection with tokens for admin sites, making the product more secure against hackers
- Assisted in planning and writing proposals, resulting in over \$100K in research grants and public sector consulting contracts

Extracurricular Activity

Cogito NTNU (Student AI Organization)

Norway

PROJECT LEAD

Sep. 2021 - Present

- Achieved 92% accuracy for a Computer Vision AI model diagnosing Pneumonia in medical imagery
- Conducted code-throughs with students, giving them a basic understanding of key concepts of Artificial Intelligence
- Gathered and processed data from the Norwegian Directorate of Fisheries, later used as a dataset for time series prediction

IOS App to keep track of dividends

Norway

IOS APP

Jun. 2021

- Stack: Swift, Firebase
- Stock API: FinancialModelingPrep
- Served as the final project for CS50

Propulse NTNU (Student Rocketry Team)

Norway

KEY ACCOUNT MANAGER

Aug. 2021 - Aug. 2022

- Worked on making partnerships with businesses by following up on leads, networking, and cold-calling
- Landed partnership with an international electronics retailer, supplying parts for avionics
- Wrote applications for funds, resulting in \$3K in University grants
- Secured a new partnership agreement with a major Norwegian equipment retailer (TESS), aiding the research of a new rocket engine

Honors & Awards

2022 **3rd Place**, Hackathon with NASA JPL, hosted by Start NTNU

Trondheim, Norway

2019 **Second Prize**, Chinese Bridge Competition Norway

Bergen, Norway

2020 **Third Prize**, Chinese Bridge Competition Norway

Bergen, Norway