

# VILHJALMUR A. VILHJALMSSON

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## EDUCATION

### Norwegian University of Science and Technology (NTNU)

Aug 2021 - July 2026

M.Sc Computer Science

Trondheim, Norway

M.Sc Applied Mathematics & Physics

## WORK EXPERIENCE

### Part time - Technical officer/Co-founder

Mar 2024 – Present

A\* Consulting

Trondheim, Norway

- Led project for major Norwegian construction company, with implementation of LangChain and LangGraph
- Secured 3 paying customers within the first month of starting

### Part time - AI Research Assistant

July 2023 - Present

NorwAI - Norwegian Research Center for AI Innovation

Trondheim, Norway

- Assisted in research, planning and writing of papers with PhD students, focused on Anomaly Detection
- Conducted experiments for multiple Anomaly detection methods on data from Scandinavian power grids
- 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 OpenSearch, Next.js and React

### Part time - Software Engineer

Feb 2022 – Mar 2024

Favn Software

Trondheim, Norway

- 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 using cloudfunctions
- Added CSRF middleware with tokens for admin sites, written in Golang Backend
- Assisted in planning and writing proposals, resulting in over \$125K in research grants and consulting contracts

## EXTRACURRICULAR ACTIVITY

### Project lead

Feb 2022 – Present

Cogito NTNU - Norways biggest AI student organisation

Trondheim, Norway

- Partnership with St.Olav hospital - Achieved 92% accuracy for pneumonia detection in medical imagery
- Conducted workshops with students, giving them a basic understanding of key concepts of AI
- Gathered and processed data from the Norwegian Directorate of Fisheries, used for time series prediction

### Key Account Manager

August 2021 - August 2022

Propulse NTNU (Student Rocketry Team)

Trondheim, Norway

- Worked on making partnerships with businesses by following up on leads, networking, and cold-calling
- Wrote applications for funds, resulting in \$3K in University grants
- Secured partnership with major Norwegian (TESS) and international electronics retailers

## HONORS AND AWARDS

**2nd place** | Hackathon by ABB Group and NTNU IE-faculty

Feb 2024

**Finalist** | HackMIT 2023

Sep 2023

**3rd Place** | Spaceport America Cup 2022

Jun 2022

**3rd place** | Hackathon with NASA JPL, hosted by Start NTNU

Feb 2022

**3rd Prize** | Chinese Bridge Competition Norway

May 2020

**2nd Prize** | Chinese Bridge Competition Norway

May 2019

## SKILLS

**Languages:** Python, C/C++, Go, SQL, JAVA, Swift

**Frameworks:** Tensorflow, PyTorch, Next.JS, Pandas, Opensearch, Firebase, LangChain, LangGraph

**Cloud Tools:** Azure, Google Cloud Platform