Vilhjalmur A. Vilhjalmsson

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EDUCATION

Norwegian University of Science and Technology (NTNU)   *Aug 2021 - July 2027*
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*

- Lead 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 | 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