Vilhjalmur Vilhjalmsson

Software Engineer

Contact

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Education

2021 -now
Bachelor: Computer Science
NTNU

2021
CS50x
edX
(Taught by Harvard)

Expertise

- Algorithms
- Data structures
- Object Oriented Programming
- Machine learning
- Google Cloud
- Golang, python, java, Swift, C

Language

English (Native)

Norwegian (Native)

Icelandic (Native)

Danish (Full working proficancy)

Mandarin (B1/B2)

Experience

2022- now
Favn Software | Trondheim, Norway
Software Engineer

Backend for analytics
- Developed a scalable server for microservices and developed generic code & API generators.
- Optimized retrieval of events for real-time workflows, and implemented a scalable data pipeline into BigQuery for batch workflows

Backend for consumer software product
- Implemented CSRF protection with tokens for admin sites, making the product more secure against hackers
- Added new endpoints to handle cache capabilities, especially flushing
- Enabled users to delete information, by creating new endpoints and functions for deletion of data, resulting in GDPR compliance

Other
- Assisted in planning and writing proposals, resulting in over $100K in research grants and public sector consulting contracts

Volunteering

2021 - now
Cogito NTNU | Trondheim, Norway
Project Lead & applied ML developer

Time series Stock prediction
- lead a group of 5 people
- Managed and formatted data from sources like YahooFinance and The Norwegian Directorate of Fisheries
- Made an LSTM model for time series prediction, reached 52.6% accuracy
- Made a Random forest classifier model for time series prediction, with 53.1% accuracy
- Technology used: *Python*, Pandas, Tensorflow

Making AI generate memes
- Coordinated a group of 5 people
- Developed a simple neural network to generate jokes
- Worked on an LSTM model to generate captions from meme templates
- Technology used: *Python*, Pandas, Tensorflow

App for geocache but with photos
- Developed app in React Native
- Worked on the dataset for AI model (Siamese neural network)
- Technology used: *Python*, Pandas, Tensorflow, *JavaScript*, React-Native

2021 - 2022
Propulse NTNU | Trondheim, Norway
Key Account Manager

The rocket project for the 2021/2022 cycle
- 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

Projects and Competitions

University Hackathons:
Hackathon with NASA JPL: 3rd
Hackathon with Microsoft: Not podium

Language competitions:
2nd and 3rd in the annual Chinese Bridge competition Norway

Projects :
App
- An IOS app to help keep track of dividends in your stock portfolio
- Stack: **Swift**, Firebase
- Stock API: FinancialModelingPrep
- Served as the final project for CS50