

Frederik Gram Kortegaard

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Personal Profile

Full-Stack developer with professional experience working with Deep Learning, Natural Language Processing, Computer Vision and microservices. Passion for Systems Programming and Stochastic Optimization.

Competences

Languages

Python	Java	Typescript
Haskell	Lua	x86 ASM
C	C#	SQL

Keywords

Machine Learning Algorithms
Natural Language Processing
Computer Vision Algorithms

System- & Build Tools

Git	AWS	Docker
Jira	Kubernetes	Elastic
Maven	Jenkins	Kibana

Domain Specifics

Tensorflow	PyTorch	Keras
OpenCV	Pandas	Scikit-Learn
NLTK	SpaCy	

Work Experience

- **Universal Robots** - Data Analyst wrt. Predictive Maintenance
At Universal Robots, I was employed in the Research and Development department focusing on Data Analysis and Machine Learning using Python, C++, sklearn, Tensorflow, and Docker - combined with management and build tools such as Jira, Maven and Jenkins.
- **Findwise** - Consultant wrt. Natural Language Processing
At Findwise I created and implemented Machine Learning and Natural Language Processing based micro- services into our data analysis pipeline, serving primarily as a part of our GDPR-compliance product chain.
In connection to this, I further built Computer Vision algorithms and developed techniques to find and extract relevant metadata from various non-trivial file types such as scanned documents and blueprints.

Featured Projects

- **Content-based Deep Image-Search** - (NLP & Deep Learning)
Created a search engine using Tensorflow, NLTK, and OpenCV that allows users to search images by describing their appearance using conversational language. Allowing for context to be specified such as "five people running on a beach while carrying water bottles", without providing *any* metadata.
- **Eridu: A Custom Programming Language** - (Systems Programming)
Developed a fully fletched programming language featuring a context-sensitive grammar from scratch, writing the parser, optimizer, and code-generator in C, outputting x86 AT&T assembly code (Platform dependent).

Education

- Bachelor of Computer Science at the University of Southern Denmark