

Hugo Math

ENGINEERING STUDENT IN COMPUTER SCIENCE · FREELANCER

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Summary

Currently a first-year master Erasmus student in computer science and artificial intelligence at Chalmers, I'm looking for **at least a 12-weeks internship starting in April 2022 in machine learning related fields**. I'm also a freelancer in software development and AI since 2019. See **my website** to know me better !

Work Experience

Athenais SA

Switzerland, Milvignes

DEV FULL STACK - FREELANCE - FACTORY AUTOMATION - SEMICONDUCTOR FAULT DETECTION

April. 2020 - Now

- Development of an optical wafer inspection software for the industry in a Swiss startup (fault detection) - .NET Python C++
- Implementation of an auto-focus algorithm in C sharp. 3D Axis, light control. Versioning using GitHub
- Building a Deep learning model with Cognex ViDi, hyper optimization with optuna. Flask API to label images and start classification.
- Agile method and integration for TE Connectivity Dortmund. Organized work to complete assignments in a timely, efficient manner

Education

ESIREM (University of Burgundy)

Dijon, France

ENGINEERING SCHOOL IN COMPUTER SCIENCE AND ELECTRONICS

2018 - 2023

- Software engineering, Image processing, Data science. Analog and digital electronics, Networks
- Mathematics (linear algebra, analysis, statistics) and Physics (waves, signal processing, quantum physics, optics, line transmission)

Chalmers University of Technology

Göteborg, Sweden

MASTER 1 ERASMUS STUDENT

August 2021 - January 2022

- Study period 1 : Neural Networks, Mobile Computing
- Study period 2 : Data Science and AI, Computer Vision

Machine Learning	CNN, RNN, Autoencoders, Boltzmann's restricted machine, Support vector machine, K-Nearest Neighbors
Programming	Python, .NET, WPF, C#, C++, C, XAML, Angular, Django, Flask, Flutter, Keras, Numpy
Soft skills	Entrepreneurship, autonomous, eager to learn, project management, open-minded, sociable, professional english
Software	Docker, Github, GCP, Firebase, Postgres, MySQL, Slack, Nutrino

Honors & Awards

PROGRAMMING

- | | | |
|------|---|---------------|
| 2021 | Finalist , Datathon of Burgundy - Segmentation of Cardiac MRI | Dijon, France |
| 2019 | First prize , Web programming competition. This lasted 24 hours and the framework used was Angular | Dijon, France |

ENTREPRENEURSHIP

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|------|--|---------------|
| 2021 | Finalist, Finance for Good . 5 month business creation program. See : deepwallet | Paris, France |
| 2021 | Finalist, Les Entrep' . 6 month business creation program as a project manager. | Dijon, France |

CERTIFICATION

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|------|--|---------------|
| 2021 | Les Entrep' , Conduct an entrepreneurship project, work in team, establish costs, create the business | Dijon, France |
| 2021 | CCNA1 , Cisco certification - Basic understanding of networks | Dijon, France |
| 2021 | PEPITE , National student entrepreneur status | Dijon, France |

Extracurricular Activity

Intelligent security camera - Edge IA

Dijon, France

PERSONNAL PROJECT - SEE MY PROJECT AT HUGOMATH.COM

2020

- Creation of a multi-class classifier for faces using an optimized CNN.
- Deployment of the Tensorflow lite model on a raspberry pi. Performance optimization, reduced model