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

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

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)

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**, Datatheon 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

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

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 OTHER PROJECT AT HUGOMATH.COM — *2020*

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