# Stiven **Morvan**

Software Engineer

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Curious, creative and persistent. Willing to take initiative to be as useful and impactful as possible.

## About me

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|---|---|
| **Languages** | French Native – English Advanced (TOEIC – 840) |
| **Programming** | Python – JavaScript  – Dart - Java – C++ – SQL – Objective C - C# |
| **Relevant Coursework** | Software Design - Optimization - Infrastructure - Machine Learning - Computer Vision |

## Education

**Master degree in Computer Science**                                                    *(September 2017 to August 2020)*
*Ecole Polytechnique de l'Université de Nantes (Nantes, France)*

**Associate degree in Computer Science**                                                  *(September 2015 to August 2017)*
*Iut de Vannes - Université de Bretagne Sud (Vannes, France)*

## Work Experience

**Software Engineer**                                                                     *(From October 2020)*
Google, Zurich, Switzerland
- Full-stack Engineer working on merchant acquisition. **(used Angular, Dart, Java, internal tools)**

**Software Engineer Intern**                                                             *(February to June 2020)*
Google, Mountain View, USA
- Extended the abilities of the team to experiment and improve spam detection models by developing TFX pipelines. Tested various models and new architectures to find enhancement in terms of AUC and model stability. **(used Tensorflow, Keras, TFMA, Vizier, Python, Tensorboard, Distributed architecture, GCL)**
- Updated and improved a tutorial about transfer learning on tenforflow.org (as a side project).

**Software Engineer Intern**                                                             *(June to September 2019)*
Google, Zurich, Switzerland
- Improved the user experience by delivering several new features on Google Maps IOS. **(used Objective C, xCode, Internal Google Maps and IOS frameworks)**
- Developed angular components for a 20% project **(TS, Angular, Material, protobuf)**

**Software Engineer Intern**                                                             *(June to August 2018)*
Car-Expresso (Startup), Nantes, France
- Made crawlers with Scrapy allowing the company to automatically collect information about vehicle models and storing it in its database. **(used XPath, Python, CSS, Scrapy, PostgresDB)**
- Created an algorithm in Python to detect similarities between vehicle ads (500k+ different possibilities) and find the right model-version of a vehicle ad between 100k+ different versions.
- Built a Restful service to normalize the vehicle ads data allowing other processes of the startup to have comparable information.

**Software Engineer Intern**                                                             *(April to June 2017)*
IRISA, INRIA (Computer Science Research Laboratory), Vannes, France
- Adapted in **C++** algorithms built through thesis or papers (**SVM** hyperspectral image classification, MSER), allowing new features for OTB's users through plugins. Worked on the creation of a computer tree library for satellite image analysis.

## Selected Projects

**VR application for Memory Palaces - Knowledgeable**                                      *(4 month - 2019)*
- Developed an application on Oculus Quest and Rift for the usage of the method of Loci. Conducted an experimental research about the impact of this method in VR. (Used **Unity, C#, LaTex**,  analysed neuropsychological literature).

**Liver Cancer detection with deep learning**  (partnership with Incepto-Medical)         *(6 month -  2019)*
- Build a Convolutional Neural Network for the detection of primary liver cancer, improved its results with mathematical morphology and combination of several models. **(Used PyTorch, MedicalTorch, TorchVision, Matplotlib, Scipy, Numpy ,Slicer3D, DICOM, Nifty)**
- Collaborated with physicians (from hospitals of Nantes and Rennes) for the creation of a dataset with segmented liver cancer.
- Made 3D U-Net accessibles  by implementing it and contributing to MedicalTorch.

**First place - PolyHash Code**                                                          *(4 weeks – 2017)*
- Won a Polytech Nantes competition inspired by the Google Hash Code. Reached the 1st place among 12 teams.