Lin GUO

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Software

Python Library

- Scikit-learn
- Keras
- MXnet
- TensorFlow
- Qt

Databases

- SQL :
  - Hadoop
  - BigQuery
- NoSQL :
  - MongoDB

Languages

Chinese

French

English

Hobbies

Reading
Cinema
Yoga
Aquascaping

Experience

Software Enginner

02/2017 - 02/2018 Laboratoire CMLA , École normale supérieure Paris-Saclay

The design and development of a first version of a human-machine interaction that

- Allows users to compile their code with Verificarlo (A tool for debugging and assessing floating point precision and reproducibility) .
- Perform arithmetic precision analysis then generate a report.

Using : HTML / CSS3 / PHP / MySQL / Javascript /Python

Internship

04/2016 - 10/2016 Laboratoire CMLA , École normale supérieure Paris-Saclay

- Compile Code_Aster (A structural mechanics simulation software) with Verificarlo without modifying a single line of its source code.
- Numerical precision evaluation of case studies in Code_Aster.

Using : Python / Fortran / LLVM / Verificarlo

Educations

In progress self-learning (books, online courses)

Machine Learning /Deep Learning / SQL /NoSQL

(Linear regression, Classification, Dimensionality Reduction, Feature engineering, CNN, RNN)

2015 - 2016 Université Pierre et Marie Curie Paris 6

Master 2 Engineering mathematics

(Scientific computing and mechanics branch)

(Optimization, PDE, Solid and Fluid mechanics…)

2013 - 2015 Université Pierre et Marie Curie Paris 6

Master 1 Mathématiques

(Statistics, Probability, Real Analysis, Combinatorics…)

Personal & Academic Projects

- Python
  - Kaggle : Santa's Worshop Tour 2019
    Optimize the organization of customer visits in Santa's shop.
  - Kaggle : Traveling Santa 2018 - Prime Paths
    .Given a list of citys, determine a shorter path that visits each city once and only once.
    Using : Clustering / Travelling salesman problem
- C++ Numerical simulation of physical phenomena in fluid mechanics :
  Hagen–Poiseuille equation / liquid leaving the nozzle of a 3D printer

- Parallel calculation MPI, OpenMP Product of two matrices
- MATLAB Simulation of the launching of a space launcher / Signal processing
- FreeFem++ / Code Saturne / Code_Aster Numerical simulation of physical phenomena in fluid and solide mechanics

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