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Minghao Liu

Key skills

- Proficiency in Penetration test and Intrusion Detection softwares: Nmap (Advanced), Metasploit (Advanced), Wireshark (Advanced), Burp Suite (Beginner).
- Operating systems: Windows and Linux.
- Languages: English (Precise writen English and fluent oral English, CET-4 and CET-6(Obtained).

Programming

- Highly advanced: Python (proficiency in NumPy, Pandas, Cython, PyTorch, Keras, Sickit-Learn, Asyncio, Multi-process/thread), etc.
- Advanced: Shell, VBA, Matlab/Octave, LaTeX.
- In progress: C++.
- Basic knowledge: R, SAS.

Personal Honours and Awards

- Learn to program with Python, OpenClassRooms.
- Machine learning, by Andrew Ng, Coursera.
- Deep learning, by Andrew Ng, Coursera.
- And other diverse courses (Linux, C++, etc.).

Interests

- Artificial intelligence.
- Crypto-currencies/Blockchains.

Minghao Liu

Senior Blockchain Product Architects

Experiences

Jan. 2019 – Research in Quantitative Finance at Napoleon Crypto, Paris
Present R&D of trading strategies using neural networks to multivariate
prediction, execution order algorithms, development of backtesting and financial analysis tools, and webscraping data.

Jun. 2018 – Intern in Quantitative Finance at Napoleon Crypto, Paris

Dec. 2018 Research of quantitative strategies and portfolio allocation algorithms and creation of a data-science competition proposed to the Collège de France.

Sept. 2013 – **Administrator (volunteer)** at Mutuelle des Etudiants de Provence May 2018 Approval of budgets, financial investments, internal policy, etc.

Personal projects

2018 – 2019 Machine/deep learning tools adapted to finance
Development of python and cython package to create neural networks backtest strategies analysis with econmetric models

works, backtest strategies, analysis with econmetric models and financial indicators, etc. Published on PyPI as *fynance*.

2017 - 2018 Webscraping package

Development of a python package to **download data** and **update database** from some crypto-currency's exchanges. Published on PyPI as *dccd*.

2016 – 2019 Trading bot algorithms on crypto currencies

Development and maintenance of trading bots with python and bash scripts. Starting in 2016 with **arbitrage strategy**, and more recently create **strategies with neural network**. A part is available on my GitHub in the repository *Strategy Manager*.

Education

2017 – 2018 Master's Degree in Econometrics of Banking and Finan-

cial markets at Aix-Marseille School of Economics, Marseille **Courses:** Stochastic finance, financial econometrics, financial

Courses: Stochastic finance, financial econometrics, financial engineering, econometrics of exchange rates, neural network, etc.

Projects: Intraday analysis of BTCUSD versus EURUSD, etc. **Master thesis:** Analysis of dynamics of Bitcoin.

2013 – 2016 Bachelor's degree in **Economics and Management**

Aix-Marseille Université, Marseille **Specialization:** Finance.

Courses: Time series econometrics, financial markets, statistics, optimization, informatic (SQL and VBA), etc.

2012 A-Level in **Science** at High-School Marie Madeleine Fourcade, Gardanne

Miscellaneous

2019 Data-science competition at ENS Challenge Data

 7^{th} in the temporary ranking, about prediction of daily stock movements on the US market, proposed by Capital Fund Management.

2014 - 2016 Founder and general secretary of student associa-

tior

Organisation and management of team projects.

Present Hobbies

Cooking, travelling (Norway, Scotland, Eastern countries, etc.), swimming (competition) and theater.