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Education

Minerva Schools at KGI Worldwide

COMPUTATIONAL SCIENCES & BUSINESS

Sep. 2018 - May. 2022

- (Major)Applied problem solving + (Major)Strategic Finance
- GRE 338/340

Research Projects

The IBM Qiskit Global Summer School

LECTURES & LABS July 2021

- Explored Quantum Approximate Optimization algorithm and applications
- Analyzed Quantum Boltzmann Machines and Quantum Generative Adversarial Networks
- Performed lab experiments on IBM Quantum platform

Correlation between Fama-French factors and business cycles

Remote

DATA ANALYSIS June 2021 - PRESENT

- Thoroughly explored existing FF3, FF5, Carhart models
- Implemented a probit-based recession prediction model
- Experimentally validates correlation between FF factors and business cycles

Quantitative trading PaaS

Remote

FULL-STACK DEVELOPMENT Sep. 2020 - PRESENT

- Developed a benchmark tool based upon LSTM prediction
- Designed UI&UX with quantified alpha/beta testing
- Implemented low latency APIs that allow high frequency trading via HTTP

ESG fund voting pattern research

Remote

DATA PROCESSING Feb 2021 - Mar 2021

- Designed a multi-thread crawler to acquire voting records from SEC edgar database
- Filtered and analyzed data using regular expression

Re-examine recessional velocity based upon a 'variable' Hubble constant

San Francisco, United States

LITERATURE REVIEW & DATA ANALYSIS

DATA COLLECTION & ANALYSIS

Nov. 2018

- Provided a unified framework for existing theories and explanations
- Quantified recessional velocity index using linear regression

San Francisco rising sea level monitoring and prognosis

San Francisco, United States

• Extensively sampled sea level and ecological data along San Francisco coastline

- · Validated results with ex ante probit model based upon historical data
- Performed a case study with SFO's designers on city planning

Internship Experiences _____

Chongging International Trust

Wuxi, China

Dec. 2018

ASSISTANT

INVESTMENT ASSISTANT

July. 2021

- Diagnosed project finance risks based upon macroeconomics policies
- Analyzed and validated Snowball derivatives using Monte Carlo knock-in/out options

Addor Capital Nanjing, China

• Identified fraud risks during financial due diligence

May. 2021 - Jun. 2021

• Quantified and analyzed Cyber Range industry performance using DCF and linear regression

SHUKAI NI · RÉSUMÉ JULY 12, 2021

Shunzhi Tech Inc.

Nanjing, China

PROJECT MANAGER & CODER

Jun. 2020 - Sep. 2020

• Designed a change detection model on VHR satellite pictures (34% better than benchmark)

- Implemented real-time video stream object detection project
- Heterogeneous computing analysis and development on multiple service providers

Consulting with Frauenmond, TBM Inc.

Seoul, Korea

Oct. 2019 - Dec. 2019

Analyzed Korean chocolate market with Porter's Five Forces Model and managerial accounting

- Strategized with Encouragement Study based on Genetic Matching and Regression Discontinuity
- Offered Neural Network model for Alpha/Beta tests on feature designing

Project Safe Francisco with Gensler Inc.

San Francisco, United States

Sep. 2018 - May. 2019

PROJECT MANAGER & CODER

- Developed a San Francisco simulation game, chosen as showcase project
- Scripted game events based on interviews and surveys
- Continuous intergration with Gensler Inc. and their architecture designing team

Nine Chapter Inc.

Shanghai, China Aug. 2017 - Nov. 2017

WEB DEVELOPER & COMPONENT DESIGNER

- Streamlined frontend building process
- 20x speedup for project building with caching design
- Bridged major front-to-back communications & REST API design

Skills_

• Expert: Python, *nix, React.js, Git, Matlab

• Proficient: SQL, R, Burp Suite, Docker, CI, Heroku

• Intermediate: TensorFlow, C/C++, Dask, Redis