Zhen Sun

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EDUCATION

California State University, Northridge — Northridge, CA
Master of Science, Computer Science; GPA: 3.84/4.00 — *Jan. 2020 – May. 2022*
- Coursework: Computer Arch, Computation Theory, Database, Data Structure & Algorithm, Data Mining, Machine Learning, NLP

University of California, Riverside — Riverside, CA
Postgraduate Diploma, Business Administration and Management — *Sep. 2014 – Sep. 2015*

Shanghai University — Shanghai, China
Bachelor of Science, Information and Computing Science; GPA: 3.62/4.00 — *Sep. 2010 – May. 2014*

EXPERIENCE

Self-employed — Greater Los Angeles, CA
Market Research Analyst — *Mar 2017 - Present*
- Build cryptocurrency trading systems by modeling and monitoring trading data and metrics across exchanges.
- Trace and forecast future market trends by developing qualitative and quantitative research.
- Identify potential opportunities like DeFi and NFTs by collecting information from various sources.

Golden West Capital, Inc. & Sumunity, Inc. — Pasadena, CA
Data Analyst / Blockchain Developer — *Aug 2017 - Apr 2018*
- Worked for both companies in Blockchain and Data fields.
- Perform data ETL approach and prepare visualized business reports.
- Predict the possible revenue by collecting and modeling business data from similar fields.
- Trace and find market trends and idea product by tracing latest information from various sources.
- Improved algorithm in some crypto currencies and deploy competitive DApps on Ethereum.

Golden West Capital, Inc. — Ontario, CA
Data Analyst — *Nov 2015 - Apr 2018*
- Use data mining method to decide proper rent for each potential tenant, increased prospective rent by 26%.
- Build model to find the best ad to put on social media with UCB algorithm, improved CTR(Click-Through Rate) by 50%.
- Prepare visualized business reports for supervisor and board of directors.
- Help improved encryption of a cryptocurrency with double-Scrypt algorithm.

China Gold Group Corporation — ZhengZhou, China
Data Analyst Intern — *Jul 2012 - Aug 2014*
- Trace and moniter volatile gold price by developing qualitative and quantitative research.
- Find Arbitrage opportunities on gold futures.

PROJECTS

- **Assessments of Transformer Fine-tune on Summarization**: Research assessments use several pretrained transformers checkpoints from Huggingface API, downstreaming and fine-tuning to text summarization tasks and evaluating the performance including T5, T5-small, BART, Encoder-Decoder model with BERT, and ProphetNet.
- **Covid-19 Data Visualization**: Data visualization of the latest Covid-19 data from covidtracking.com and linear plot the trend lines.
- **Bitcoin Price Prediction with LSTM**: A RNN model built with stacked LSTM to predict the trend of bitcoin price. This model uses the previous daysteps of data to predict the next day's price.
- **Simple Blockchain in Go**: A blockchain program for library system made with golang, include the basic ideas such as Hash, Validation and Web Server.

SKILLS

- AWS, Data Mining, Data Visualization, Machine Learning, NLP, Market Research, Business Modeling
- **Languages**: Python, Golang, C/C++, Matlab, SQL