Lihua (Neo) Pei

• Email: lihua.peidata@gmail.com • Phone: +1 847-848-5805 • Portfolio of Projects: https://lihuapeineo.github.io

Овјест

Data Scientist jobs: I am looking for the Data Scienist jobs.

Legal Worker: I am the US Permanent Resident.

EDUCATION

The George Washington University

Washington, DC Master Degree in Data Analytics (Computer Science Track) Expected May. 2020

Stony Brook University

Bachelor Degree in Applied Mathematic & Statistics (AMS)

STONY BROOK, NY

Dec 2017

SKILLS

Computer Skills:

• Coding: Python, SQL, R, Java.

• Front-end: HTML/CSS, JavaScript.

• Back-end: MySQL, MongoDB, Linux.

Data Analysis Technologies:

• Skilled in the Machine Learning, Data Visualization, Nature Language Processing and Database Management.

EXPERIENCE

Data Scientist Intern - Database Developer

Washington DC May 2019 - Present

Fresh Air DC Project

• Data Mining: Improve data mining processes, resulting in a 90% decrease in time cost to preprocess data by using Python.

- Co-location Analysis: Conduct the Time Series Analysis and the Correlation Analysis to visualize the data comparison between uRAD monitors' data and the Department of Energy and Environment's data in order to evaluate uRAD monitors for future productions improvement.
- Database: Develop the MySQL database collecting uRAD monitors' data updating every 30 seconds at the George Washington University's cloud servers.

High-Performance Computing Intern - Research Assistant

JINAN, CHINA

National Supercomputer Center in Jinan

May. 2018-July. 2018

- Developed the clusters' monitor system to inspect the CPU temperature and the spin speed of fans for avoiding the bias of experimental results by CPU downgrading frequency.
- Assisted to design clusters' experiments and collected experimental datasets.

Database Developer

Hong Kong, China

Fire Pillar Studio

June. 2017 – May. 2018

- Deep-Learning: Assisted to develop a deep-learning program MIB (make it breath) which can auto recognize the cartoon characters in pictures and make characters have the action like breathing.
- Database: Developed and maintaining the local MySQL databases for the project which stored over 20,000 original user updated pictures and processed data.

Optimal Topologies Searching Research Project

STONY BROOK UNIVERSITY

Research Assistant Guided by Prof. Yuefan Deng

Aug. 2017 - March. 2018

- Algorithm: Designed and implemented an algorithm to generate and search the optimal topologies with 64 nodes and degree 3. Successfully found the optimal 64k3 topologies by applying the algorithm on Highperformance Computer.
- Database: Built and maintained the local database to store over 10 million generated topologies for research purpose.
- Data Analysis: Collected the performence data of new topologies and visualized experimental results. The 64K3 optimal topology achieved 150% to 320% better efficiency than commonly used ring topologies.

Data Analytics Projects

Donald Trump's Twitters Analysis

THE GEORGE WASHINGTON UNIVERSITY

Topic Modeling

Sept. 2018 - Dec. 2018

- Collected over thirty thousands twitters of realDonaldTrump by Twitter's API.
- Created an NLP model based on LSI and LDA methods to assigned each Trump's twitter with a matched topic.

Stocks Investment Recommendation System

THE GEORGE WASHINGTON UNIVERSITY

SVM (Support Vector Machine)

May. 2018 - Oct. 2018

• Collected data of top 500 stocks with 18 significant features crawling from Yahoo Finance websites.

- Created a machine learning model based on SVM to predict the market trend and stocks' price. Achieved
- Created an investment strategy recommendation model for the maximum profit.