

Nuo Xu

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SKILLS

Language: English, Mandarin

Programming Languages: C++(preferred), Python(preferred), JAVA, C, Haskell

Computer Skills: MySQL, Sklearn, Machine Learning, Web Scraping, Linux, Network, Data Mining, Pandas, Numpy, Multi-Threading Programming using C++, Docker, Git, Cmake, Raspberry Pi

EDUCATION

Syracuse University, Syracuse NY (GPA: 3.5 / 4.0)

Sep. 2021 – May 2023

Master of Science in Computer Science

Dalian Jiaotong University, China (GPA: 87.65/100.00 Ranking: 5%)

Sep. 2015 - Jul. 2019

Bachelor of science in Software Engineering

WORK EXPERIENCE

TSMC (Contractor via Acer) | IT Engineer

July 2023-Present / AZ, United States

- Designed and developed automation software to replace the manual execution of repetitive tasks, resulting in an extraordinary increase in work efficiency by over 100%.
- Developed batch processing scripts to optimize the resolution of challenges encountered during the installation of customized operating systems, thereby boosting overall efficiency.
- Utilized Python to develop web scraping scripts, facilitating the collection of online information, followed by seamless integration of the acquired data.
- Proficiently performed laptop reinstallation and did troubleshoot.

ShiShang Tucai Trading Co., Ltd | Trading System Developer

Jan. 2020 – Jul.2021 / China

- Identified profitable arbitrage opportunities in the Chinese stock market by utilizing customized Python scripts and technical analysis.
- Developed a comprehensive backtesting framework from scratch using C++.
- Implemented multi-threading techniques to enhance the speed of the backtesting framework.
- Utilized Python and brokerage API to automate trading and gather stock information.
- Successfully deployed the entire system on the Tencent cloud server.

Lan Ou technology(Dalian) LLC | Intern Software Developer

Jun. 2018 - Sep. 2018 / China

- Created a social media (WeChat) bot that enabled students to check their test scores easily.
- Developed a Python script that utilized web scraping to retrieve data from the target website.
- Designed a web scraping script that utilized libraries such as BeautifulSoup and PhantomJS to extract test score data from the target website.
- Assisted more than one thousand students in conveniently accessing their test grades.

PUBLICATIONS

- Xu Nuo, Wang Deguang, Zhao Yu, Wang Yu. *Public Opinion Analysis System Based on Machine Learning*. *Journal of Microcomputer Applications*, CN: 31-1634/TP, ISSN: 1007-757X.

PROJECT EXPERIENCES

Recognition and automatically control by Raspberry Pi (Python)

- Created a Python project that utilized image recognition to control a game character on an iPhone screen through a Raspberry Pi.
- Utilized Opencv for image recognition and to calculate the duration of button presses.
- Utilized socket programming to transfer parameters from the Python program to the Raspberry Pi, and developed a Raspberry Pi program that controlled a servo motor for button presses.
- Published in GitHub and received 40+ stars github.com/xunuodfh/tiaoyitiao.

Public Opinion Analysis System Based on Machine Learning (funded project, Python), Group Leader

- Defined the data format, content, and database design for web crawling.
- Developed the crawler program and trained a emotional classification model using the LSTM algorithm.