Xingxiang(Jeff) Luo

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https://github.com/USYD2020

EDUCATION

University of Sydney (ranked 27th in the world, 2020USNews) - Bachelor of Computer Science Undergraduate School of Engineering and Information Technology — Jul 2017 - Oct 2020

- WAM: 83/100 (converted to 4.0/4.0 GPA, top 5% of majors)
- Honors/Awards: 2018 School of Computer Science Dean's List, 2017 University of Sydney Chancellor's Scholarship
- Related courses: algorithm design, machine learning, image processing, software design

Project experience

Data analysis on the virus vulnerability scores of 312 regions in Sydney — Mar 2020 - Apr 2020

- Scraped data from government websites and used MySQL for data storage and management, and GitHub for team collaboration and version control.
- Used techniques like indexing, spatial join, GeoPandas packages, weighted models to obtain the vulnerability scores of each region, visualised the vulnerability score of virus infection on a map, and revealed the relationship between the vulnerability score and confirmed cases. All results are documented and the report scores high marks.

Refactor of EPR Ordering System — Mar 2020 - Apr 2020

- Refactored an ERP ordering system, used Java to develop a command-line interface to read interact with the client, enabling users to create order, and save order and update database in servers
- Applied concurrency techniques to facilitate multithreading for simultaneous storage and saving of multiple orders.

Capstone Project: Trading bot for MetaTrade - product manager — Aug 2019 - Nov 2019

- Connected with the client, led a 5-man developer group to use MQL and python to interface between MetaTrader and python, automated trading operations of multiple currencies using algorithms developed by the client (algorithm developers)
- Documented all development resources using BitBucket and Slack, demonstrated the use of the developed package and presented with a live demo and user manual, well praised by the client and professors.

Stickman Game Design — Sep 2019 - Oct 2019

- Applied OOP concepts and design patterns for a stickman game, in which a player could save or load the game, control the stickman hero to move, kill slime, and complete levels.

PROFESSIONAL EXPERIENCE

STEM Tuition Agency - Core Lecturer — Mar 2018 - Jun 2020

- Planned operations to improve company image and operations efficiencies, designed teaching contents alone, increased the number of enrolled students by at least 30%.
- Conducted revision lectures for freshman courses in maths, programming, data science, and statistics for two consecutive years, improved the performance of more than 300 students and reduced the average failure rate from 30% to about 5%

Infineon Technologies - Consultant intern Supply Chain and Logistics Department — Aug 2013 - Apr 2014

- Participated in a 5-person consultant team, connected with the product manager of Infineon's Singapore headquarters, assessed its supply chain and demand in the Asia-Pacific region, provided the management with decision-making tools.
- Use mathematical modeling and simulation software to analyze the cost and time of the current supply chain; Recommended Shanghai-Singapore as a distribution center combination to improve the company's supply chain's speed, cost, and service level, completed the consulting report, well praised by professors and company management.

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** PowerPoint, Excel, Python, SQL, Java, R, Git, Design patterns, Spring framework
- **Languages:** English, Mandarin
- **Interests:** Basketball, Peking Opera