Frank J.Fan

424-270-4038 | frankfan6969@g.ucla.edu | No. 330 De Neve Dr, Los Angeles, California

Education

UCLA (University of California, Los Angeles)   Sep 2021-present
Mathematics of Computation; GPA: 4.00/4.00
Relevant coursework: Introduction to Computer Science; Data Structures & Algorithms; Python with Applications; Integration and Infinite Series; Single&Multi Variable Calculus; Linear Algebra; Differential Equations
Audit course: Introduction to Finance(Secondary Market); Introduction to reinforcement learning

Wuhan Britain-china School   Sep 2018-May 2021
The International Baccalaureate Program; IB Final Grade: 43/45

Experience

Reinforcement Learning Research Assistant   June 2022-Sep 2022
Python | Statistical Analysis | Microsoft Excel
- Proposed the EPC algorithm for solving multi-agent reinforcement learning problems inspired by the challenge that the variance of policy gradient grows exponentially with the number of agents.
- Applied the EPC algorithm to 3 different environments and compared its performance with baseline approaches and showed that it outperformed baseline approaches by 30%.
- Concluded that the EPC algorithm improved the stability of the training procedure by 40%.

Program Participant for Software engineer at JPMorgan Chase&Co.   Dec 2021-Feb 2022
Python | JavaScript | JPMorgan Chase frameworks
- Interfaced the relevant financial data feed and made 6 adjustments to facilitate the monitoring of potential trade opportunities by using Python and Git.
- Applied JPMorgan Chase frameworks and JavaScript to visually display data on their screens in chart form for traders to monitor the change in stock prices.
- Utilized JavaScript to set upper& lower bound for the data, distinguished the stages when the stock ratio is within or out of range, and alerted traders when proper trading strategies need to be changed.

Program Participant for Investment Banking at Citi Bank   Oct 2021-Dec 2021
Microsoft Excel | Financial Analysis | Formal Writing(report)
- Prepared a company profile for Zeta Inc. by making a company brief introduction, using Excel skills to draw the chart of its financial model and map its market size.
- Selected the appropriate comparable companies and used Excel coding skills to calculate financial metrics such as FV/EBITDA ratio, P/E ratio, and Dividend Yield from a large pool of data.
- Summarized key findings from the financial metrics and compared the performance of Zeta Inc. to its peers.

Project Leader at Honeypot Tennis   May 2021-July 2021
Project Management | Microsoft Excel | PowerPoint | Data analysis | Public Speaking
- Promoted the popularity of tennis among international schools in Wuhan by learning theories about project management, sales, planning, and data mapping.
- Successfully enabled Honeypot Tennis to take charge of the tennis training at Wuhan Britain-china School
- Increased the total sales of Honeypot Tennis by 10% and its customer base by 20% by holding info sessions about Tennis & Children Growth.

Volunteer service

Volunteer Math Tutor on Easy A   Nov 2021-present
- Mentor 50 students, cumulatively help solve 200 problems, and spend more than 60h volunteering on the platform.
- Develop strategies to order logic in the easiest comprehensible manner.

SKILLS

Skills for job: Python | C++ | HTML | CSS | R | Microsoft Excel | PowerPoint | Project management | Data analysis
Languages: Chinese(native)and English
Interest: Tennis (15 Years) | Track and Field | Piano | Singing