Mingze Lin

(646)-872-8332 | ml4722@columbia.edu | [LinkedIn](#) | [GitHub](#) | [Homepage](#)

EDUCATION BACKGROUND

Columbia University   New York, United States
Master of Science in Enterprise Risk Management   *Sep 2021 – Dec 2022*
- Selected Courses: Quantitative RM, Traditional ERM Practices, Finance

University of Waterloo   Waterloo, Canada
Bachelor of Computer Science, Honours CS (Distinction), Dean's Honours Listed, Scholarship   *Sep 2016 – June 2021*
- Selected Courses: AI, Data Management, Algorithms, Networks, Databases, Financial Math & Accounting

WORK EXPERIENCE

Northeast Securities Co., Ltd.   Suzhou, China
Assistant Equity Research Analyst Intern   *Jun 2021 – Sep 2021*
- Collected and proceeded domestic and global news daily, wrote daily reports, and presented in morning meetings
- Researched on artificial sweeteners market, examined operation, finance, and production capacity of different China A-shares related, constructed reports which published to clients
- Field trips to Ticker SYM 688330, 002976 of A-shares, arranged high-level meetings for investors and corporate management. Engaged in fundamental analysis and facilitated clients' market decision-making.

RSVP Technologies Inc.   Waterloo, Canada
Software Engineer Intern   *Jan 2020 – Apr 2020*
- Led migration projects, transforming chatbot platforms from VueJs to ReactJs. Handled technical research, time management, task allocations, and clients' follow-up. Finished the transformation on time and met expectation
- Optimized the response time of NLU engine by 20% with algorithm and data structure improvement
- Implemented data processing functions to extract millions of chatbot chatting records from SQL and filtered valid conversations to improve future chatbot accuracy and chatting efficiency
- Developed and maintained web apps with React, Vue.js, and Django for text annotation

Jidang Technologies Co., Ltd   Shanghai, China
Intern Assistant for The Chairman   *Jun 2019 – Sep 2019*
- Conducted market research on precision manufacturing industries, explored companies that pioneered the integration of e-commerce and industry 4.0, compiled the investigated data into database
- Extracted existing clients' data, analyzed the data with statistical models in Python using Panda, accommodated the analytical results into a beneficial business strategy report
- Engaged in high-level meetings with overseas venture capitals and retail giants and contributed to case studies on business models of G-Super, Hema Freshippo (Ali Groups), Yonghui Superstores, Cheersson Metal Forming, etc.

Canadian Imperial Bank of Commerce   Toronto, Canada
DevOps Specialist Intern   *Jan 2019 – Apr 2019*
- Presented as a point of contact with business teams for Oracle database, HDFS, Hue, and user access related issues
- Proposed a new framework of unit tests on SQL with DBForge for the DevOps Team to increase ease of use
- Revamped operational dashboard and user access reporting with Python and Autosys to enhance data sharing
- Automated user onboarding and data validation with Python, Shell, REST, and JSON to improve efficiency

SELECTED PROJECTS

AI Portfolio | *Python/Shell Projects*   *Sep 2020 – Nov 2020*
- Used big data and machine learning to train the decision tree model for detecting Equine Colic disease
- 'Connect 4' AI game bot implemented using alpha-beta pruning and built-in heuristics on Linux
- Implemented Sudoku solver using backtracking, forward-checking, arc-consistency, etc.
- Traveling Salesman Problem solver using A* algorithm and Simulated Annealing for finding the optimal solution

EXTRA-CURRICULAR ACTIVITIES

Programming Skills: C++, Java, JavaScript, HTML/CSS, Linux/ShellScript, Python, MySQL, Matlab, R, Excel, etc.
Interests: Backpacking (15+ countries), International Volunteer, Model UN, Mountaineering Leader, Marathon Runner