

Hongling Lei

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EDUCATION

2020 Fall Admissions: Duke University MQM: BA, Carnegie Mellon University MISM-BIDA, UT Austin MSBA

Xiamen University

BEcon in Finance. GPA 3.81/4.0

Relevant Courses: Java, Database, Data Science, C, Statistics, Mathematical Analysis, Probability Theory, Linear Algebra

China

Sept. 2016 – Jun. 2020

University of California, Berkeley

Semester Exchange, Multidisciplinary Program. GPA 3.95/4.0

Relevant Courses: Data Analysis (Python), Computing with Data (R)

U.S.

Jan. 2019 – May 2019

Nanyang Technological University

Summer Exchange, Digital Marketing. GPA 5.0/5.0

Singapore

Jun. 2018 – Jul. 2018

PROFESSIONAL EXPERIENCE

DiDi Chuxing Technology Co.

Data Analyst Intern, Decision Support Department

Beijing

Sept. 2020 – Present

- Constructed a driver-service-value information system with team through ETL and data pipeline management
- Developed a market sizing model which discovers the fluctuation patterns of driver and order numbers, derives the optimal supply-demand equilibriums, and alleviates rush hour transportation pressure in 14 cities
- Supported business and strategy decisions by extracting and analyzing billions of data points on Apache Hive
- Designed and monitored dashboards that can automatically update data and visualize analytical results

Bairong Technology Inc.

Data Scientist Intern, Financial Technology Department

Shenzhen

May 2020 – Aug. 2020

- Built a semi-supervised learning model using the MixMatch algorithm with PyTorch, which can classify customers into different groups based on credit default risk predictions, achieving 90% accuracy
- Developed a report generation program with over 2,000 lines of Python code, which automatically calculates performance indicators, graphs statistical distributions, produces analysis texts, and creates formatted slides
- Tested over 200K Excel rows with VBA, ensuring data quality before sending them to clients

LexinFintech Holdings Ltd.

Data Management Intern, Big Data Intelligence Department

Shenzhen

Aug. 2019 – Sept. 2019

- Analyzed over 667K real-time customer profile data using HiveQL; developed a real-time interactive web report with a search function and visualized results based on Kafka and Spark streaming
- Participated in the Financial Statement Project: extracted 44 testing samples that covered all situations from 170M financial data for the Risk Management Department, shortening report generation time from 3 days to 2.5 hours
- Performed database consistency checks by sorting and fixing abnormal jobs through checkpoint recovery

PROGRAMMING PROJECTS

Java | Letter Grader [GitHub]

Jun. 2020

- Developed an object-oriented program that determines the letter grade of students using class, objects, exception handling, and collection

Python | Association Rule Mining [GitHub]

Oct. 2019

- Utilized supermarket receipts to analyze associations (support, confidence, lift, etc.) between consumer goods
- Optimized algorithm designs in association rule mining, speeding up the execution process from 8 mins to 0.4s

R | Package Development [GitHub]

Apr. 2019

- Published an R package called “binomial” that tests the validity of inputs, calculates the probability based on given parameters, graphs the distribution and displays a summary of skewness, kurtosis, etc.

Python | Angry Projectiles (Team Member, with 2 Google Engineers) [GitHub]

Mar. 2019

- Applied aerodynamics knowledge and Newton’s method using NumPy and SciPy
- Developed a throwing game that simulates the launch, studies the motion, and animates the trajectory of projectiles

R | Shiny App Development [GitHub]

Mar. 2019

- Developed a user-interactive web app that can forecast investment returns and graph the growing trend

ACTIVITIES/AWARDS

XMU Business Elite Club, Deloitte Club, Student Union in Department of Finance (President of the Academic Sector)

University Merit Scholarship (top 0.5%), Student Honors Program (top 2%), Academic Excellence Award (top 10%)

TECHNICAL SKILLS

Programming/Software: Python, R, SQL, Java, C, HTML, TensorFlow, PyTorch, Apache Hive, Meltwater, SEMrush

Languages: Mandarin Chinese (native), English (fluent, TOEFL 116 with Speaking 30), Korean (basic)