

Bill Li

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EDUCATION

Carnegie Mellon University, Heinz College

Master of Information Systems Management - Business Intelligence and Data Analytics

- Cumulative GPA: 3.93/4.00

Pittsburgh, PA

Expected December 2024

University of Rochester

Bachelor of Engineering in Computer Science & Bachelor of Art in Economics

- Cumulative GPA: 3.83/4.00 (Degree Honor: Cum Laude Highest Distinction)

Rochester, NY

August 2019 – May 2023

SKILLS

- Programming:** Java, SQL, Python (NumPy, Pandas, Seaborn, PyTorch, PySpark, TensorFlow), R, Kotlin, C, STATA, Latex,
- Software:** Excel (VBA, Vlookup/Xlookup, Pivot Table), VS Code, Android Studio, SPRING, MVVM frameworks, Oracle Cloud
- Visualization:** Power BI, Tableau, D3.js, ggplots, Matplotlib
- Database:** Oracle DBMS, Microsoft SQL Service, PostgreSQL, MongoDB
- Analytical Techniques:** SVM, Decision Trees, Random Forests, K-means, Clustering, XG-Boost, PCA, Outliers Analysis, Hypothesis Testing (p-value, false discovery rates, t-statistics)

WORK EXPERIENCE

AsiaInfo Technologies, LTD (NASDAQ: ASIA)

Data Analytics Internship

Nanjing, China

May 2023 – July 2023

- Projected needs in a ML model by Python for elderly-care beds, both within medical institutions and communities in Shanghai for FY 2025
- Performed ETL in Python to extract and preprocessed bed data from government websites by implementing web crawlers and APIs
- Applied ARIMA, Logistic Growth, Holt's Linear Trend and GM (1,1) models to facilitate marketing decisions making process
- Created interactive dashboards in Power BI and Excel VBA to visualize key metrics such as income with demographic heatmaps
- Recommended engineer teams by selecting multiple predictive models to forecast rates of complaints for optimizing user experience

Jiangsu Ya'ao Technology Co., LTD (NEEQ: 430500)

Software Development Internship

Nanjing, China

May 2022 – July 2022

- Utilized MVVM framework in Java to develop a monitoring App in Android Studio based on provided prototypes under Agile environment
- Implemented front-end functionalities including user login, port configuration, and data visualization interfaces to achieve an intuitive UI
- Visualized sensor statistics from 7 base stations each with 100+ data entries using recycler views and pie charts
- Designed API service using SPRING framework in Java and collaborated with backend engineers to back-test the reliability of APIs

University of Rochester

Teaching Assistant (CSC 261 - Database Management Course)

Rochester, NY

August 2022 – May 2023

- Mentored over 100 students by conducting weekly office hour sessions, reviewing crucial materials of lectures, and addressing inquiries
- Presented detailed explanations to help students better understand course materials and prepare for assignments and exams
- Initiated and regularly updated a mind map project to help students better visualize correlative database concepts
- Graded assignments promptly to compile common mistakes, channeled the communication between students and the professor

PROJECT EXPERIENCE

"Order Management Portal" Database Implementation (SQL)

Project Team Leader – Database System Management

Rochester, NY

January 2022 – May 2022

- Designed and established relational database system to support management of daily orders for online retail stores
- Led a team of three individuals to create ER Diagram, converted into relations, and executed BCNF normalization
- Implemented ultimate database project in PHP and crafted personalized web interfaces utilizing HTML and CSS, allowing customers and administrators to log in and engage with database under different logic

Exploratory Data Analytics (EDA) on COVID-19 Vaccine Adverse Reactions

Project Team Member – Introduction to Mathematical Statistics

Rochester, NY

February 2021 – May 2021

- Explored potential impact of factors such as patient age and vaccine manufacturer on vaccine adverse reactions
- Developed linear regression model to estimate length of hospitalization and likelihood of mortality based on different age groups
- Performed data visualization with histograms and stacked bar charts and concluded that length of hospital stay is directly proportional to age; Pfizer/Biotech vaccines may lead to lower likelihood of death than Moderna vaccine

"Entertainment" Android Mobile Application

Project Lead – Mobile Application Development

Rochester, NY

January 2022 – May 2022

- Developed Android app in Kotlin with API that offers users descriptions of random activities to alleviate boredom
- Implemented webservice using Retrofit, shared preferences, alert dialogs, recycler views, and web views
- Customized application by adding unique icon, splash screen, copyright information, and localization in Chinese