

Billy Chen, M.S. Data Science

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SUMMARY

- 6 Years of Business Analytics, Data Science, Machine Learning, and Economics Experience
- Proven ability to apply strong analytical skills to solve business needs resulting in increased client satisfaction and revenue which provided to a competitive market advantage
- Passionate Data Scientist with over 6 years of software experience with using Machine Learning techniques, Data Visualization, Predictive and Statistical Analytics
- Expert developer in Python, SQL, R, SAS, and STATA with experience in Hive, Spark, Power BI, Tableau, SSRS, Agile, ETL, Azure, Amazon S3, GCP, Databricks, DataRobot, and GIT

SKILLS

Commercial Software Development	Data Analytics Product Development
Advanced Machine Learning & AI	Excellent problem-solving capabilities
Expert in Healthcare & Financial Data	Rapid Understanding of complex problems
Custom Data Science & A/B Test Solutions	Expert in Data Visualization platforms
Expert in Python, R, SQL, SAS, STATA	Statistical Analysis of Large Datasets
Experience with Hive, Spark	Excellent cross-team communication

EDUCATION

M.S.	THE UNIVERSITY OF TEXAS AT DALLAS	Dallas, Texas	2019
	Business Analytics; Data Science; Dean's Excellence scholarship		
B.S.	National University of Kaohsiung	Kaohsiung, Taiwan	2016
	Applied Economics		

EXPERIENCE

Bayer **May 2021 – Present**
Senior Data Scientist Consultant – Advanced Analytics and Data Science **(Contract)**

- Built customer/digital market segmentation, machine learning models, Customer Lifetime Values methodology resulting in ~\$500k cost saving and ~10% retention rate increased
- Conducting Market Basket Analysis increased product sales by 10% through analyzing customer consumption behavior over a three-month period with companywide award
- Led end-to-end persona projects in machine learning classification/regression models by analyzing commercial exposure rate, customer buying rate, digital purchase index, and demographic deep-dive research to reach \$1M business outreaching potentials
- Enhanced systemic ETL ingestion by using Google Big Query with Oracle, fetch, and IRI receipts data and conduct automation for process and dashboards on Databricks which drives new business through understanding customer strategies and visualize the business niches

Omnicell (Acquired Pharmaceutical Strategies Group, October 2020)

October 2020 – May 2021

Senior Business Intelligence Data Scientist

- Led the team and provided a competitive advantage by combining Python, Google APIs, SQL, and automatic dashboard to provide clients unique financial strategies in changing market
- Identified and alerted stakeholders of potential systemic data issues by development of novel software using advanced statistical analytics, which decreased data ingestion errors by 20%
- Coordinated cross-functionally with stakeholders resulting in ~15% excellent resolution rate, by my advanced skills in Python, Telerik, SSRS, SQL, Power BI and communication skills

Data Scientist (Pharmaceutical Strategies Group)

July 2019 – October 2020

- Analyzed, diagnosed, and developed solutions for migrating clients to a better drug matching algorithm using advanced Machine Learning techniques that increased client satisfaction and ~\$100K financial savings, as well as a 15% increase in revenue from these clients
- Developed a pricing data model using ML to predict and forecast changes in pharmaceutical companies' drug prices which provided the cutting-edge financial impact analysis for clients
- Developed insightful weekly and monthly KPI PowerBI and SSRS reporting, which increased external client satisfaction of our software's performance with ~\$100K saving

Hsin Pao Textile Co., Ltd

July 2015 – June 2017

Business Data Scientist

- Increased profitability of fabric products by 10% in over 3 months using statistical analysis applied to historical data therefore identifying opportunities for reducing revenue leakage
- Decreased technical resources needed to solve data inaccuracies by 50% via Data Visualization technology that demonstrated data storage and processing best practices
- Increased market share by 10% via modernization to data science best practices in Python

INTERSHIPS

• **DXC Technology | Data Scientist Intern**

June 2018 – August 2018

- Used data modeling to accurately predict and evaluation business risks through data insights obtained using advanced ML, regression testing, and statistical analytics

• **Fubon Security Bank | Financial Analyst Intern**

June 2015 – August 2015

- Increased client profit by over 10% using comprehensive market indices and analytics

• **National University of Kaohsiung | Research Assistant**

September 2014 – June 2015

AWARDS & HONORS

- **United Way Financial Analysis Competition | Finalist** **2017**
- **IBM Global Cancer Rate Analytics competition | Nominee** **2018**
- **Twitter Marketing Python Project Competition | Nominee** **2018**
- **Lennox International Financial Forecast Competition | Nominee** **2019**