Quang Minh (Mark) Le

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WORK EXPERIENCES

Data Management Student Assistant, California State University Long Beach   **Feb 2025 – Present**

<u>Key Achievement</u>: Delivered a full-stack data migration solution, consolidating 50K+ records into a centralized SQL database, streamlining counselor workflows, and boosting operational productivity by 50%. [Github link](#).

- Migrated 50k records for Workability IV program from MS Access to CSULB on prem MS-SQL server, designed ERD for the system, implemented backend APIs using Django REST Framework, and developed frontend in React. This helped counselors easily track case notes and reduce the data redundancy resulting in 50% increase in productivity.
- Managed Career Development Center database using SQL to maintain 45K student records, ensuring 99% data accuracy and security.

Data Analyst, GeoComply Solution Inc. | Vancouver, BC   **Feb 2023 – Aug 2024**

<u>Key Achievement</u>: Engineered adaptive API throttle control alerts and automated monitoring pipelines that cut incident response times by 40% and maintained 99.8% system uptime.

- Developed Requests per Second (RPS) and weekly API request capture metrics using Python and Airflow to create throttle control alerts triggered by usage exceeding 1 million requests per hour. This reduces human error in system checks and accelerates daily operations by 15%.
- Built data pipelines with Python Kibana ElasticSearch integration tools using signals from GeoComply Core Solution internal databases to enrich 3 millions data points, improving by 40% more data for GeoGuard database.
- Conducted in-depth investigations and created large-scale ad-hoc reports using 100M+ data records on Databricks on system fraud detection per request for upper management and customer inquiries.
- Performed testing and data quality assurance to ensure data integrity during daily operations to achieve near 0% downtime.

Data Analyst, LiteFinance | Vancouver, BC   **Sep 2021 – Dec 2022**

<u>Key Achievement</u>: Launched interactive Power BI dashboards drove a 25% uplift in decision-making efficiency.

- Developed interactive Business Intelligence dashboards with Power BI to enhance market research for company concept testing in the North American, Brazil and Mexico market, resulting in 25% increase in actionable insights and improved decision-making efficiency.
- Cleaned raw data coming from a third party partner and analyzed the 500,000 data points using Python.
- Conducted Statistical Analysis and ad hoc report using Python and Power BI with DAX and assisted the System Analyst team in data modeling and building Entity Relation Diagram and UML.

Business Intelligence Intern, EMC Business Solution | Vancouver, BC   **Oct 2020 – Apr 2021**

- Leveraged customer review data using MySQL to identify product improvement opportunities with SWOT analysis and drive strategic expansion to uncover competitive insights and industry trends.
- Collaborated with business partners to enhance integrated marketing, financial strategies for digital transformation.

PROJECTS

- **Estimating Stress Level Supervised Model, *[GitHub](#)***: Engineered and tuned a Random Forest pipeline to predict student stress from mixed survey data, achieving 63.5% binary accuracy and a 0.63 ROC-AUC.
- **AdFraud Detection, *[GitHub](#)*:** Developed a Decision Tree model to classify risky transactions and detect attribution fraud in mobile app marketing. Improved fraud detection accuracy to enhance marketing analytics and decision-making.

EDUCATION & AWARD

- **Master of Science in Information System** - California State University Long Beach   Expected: **May 2026**
  Major: Data Science | GPA: 4.0/4.0
- **Bachelor of Arts in Economics -** University of British Columbia   **Aug 2017 - May 2021**
- **3rd place -** Alteryx South California Datathon 2024 (100 participants)   **Oct 2024**

TECHNICAL SKILLS

- **Programming Languages**: Python, Spark, R, Django, JavaScript
- **Database Management Systems**: MySQL, ElasticSearch, PostgreSQL, MongoDB, DataBricks, Snowflake, MS Access
- **Cloud Services**: AWS (EC2, S3, Athena, QuickSight, Lambda), Azure, Databricks, BigQuery, Docker
- **Analysis & Workflow Tools**: Power BI, Tableau, Alteryx, SPSS, scikit-learn, Pytorch, Tensorflow, Airflow, Kafka, n8n, Jira