

# TOMMY LY (LY VINH HUNG)

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## EXPERIENCE

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### NEW YORK GENOME CENTER

6-8/2022 | New York

#### Summer Intern

- Developed and repurposed PySeq2500 - a Python package for the Illumina HiSeq 2500 DNA sequencing machine, transforming it into an automated fluorescence microscope.
- Gained hands-on experience in parallel computing and working with multi-dimensional arrays, demonstrating expertise in software development and image analysis techniques.
- Acquired knowledge of dask and xarray Python packages, using them to create a background correction function through min-max scaling and to determine the focal plane for high-resolution images through a Gaussian filter.

### UBER TECHNOLOGIES INC

9/2018-5/2020 | New York

#### Senior Regional Operations Manager

- Produced ridesharing and food delivery trade-off decision framework using Cobb-Douglas production function, a technique commonly used in microeconomics, led to 3 experiments that increased driver retention lift by 15%.
- Applied regression-based causal analysis to estimate effect of a treatment (driver's behavior) on an outcome (likelihood to use multiple product offerings), contributed to an initiative that improved trips per week by 6%.
- Led end-to-end switchback experiment analysis to determine Uber's marketplace optimal conditions, subsequently observed a 10% increase in total trips completed by treatment group versus control.

#### Regional Operations Manager

9/2017-7/2018 | Singapore

- Drove launch strategy for ultra-low-cost uberPOOL in Singapore & Manila, a top 3 priorities for Uber 2018 strategy to unlock the next 10x rider segments.
- APAC regional lead for experimentation platform & marketplace investment. Guided 6 high-impact pricing & matching experiments and led a team of 5 to build automated marketplace capital allocation strategy.

#### Operations Manager

2/2016-8/2017 | Vietnam

- Product & experimentation lead for Vietnam. Led more than 12 key product rollouts and 16 experimentations (highest in the region), one of which became best practice across South East & North Asia.

### LAZADA SOUTH EAST ASIA - ALIBABA GROUP

7/2014-5/2015 | Thailand

#### Regional Associate

- Performed sophisticated optimization and marketing automation through Excel VBA and JavaScript with more than \$200,000 monthly budget while reduced weekly tasks by 15 hours and cost efficiency by 65%.

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## EDUCATION

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### COLUMBIA UNIVERSITY - Bachelor's Degree, Computer Science

2021-2024

- **GPA:** 3.88
- **Award:** Dean's List - Spring and Fall 2022, Honor Society of the School of General Studies
- **Relevant Coursework:** C Programming, Data Structures & Algorithms, Multivariable Calculus, Computational Linear Algebra, Probability for Engineers
- **University Activities:** Artificial Intelligence @ Columbia Club - Co-founder

### RMIT UNIVERSITY - Bachelor's Degree, Commerce

2010-2013

- **GPA:** 3.6

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## SKILLS & INTERESTS

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- **Languages:** Python, Java, C
- **Frameworks/Libraries:** pandas, numpy, dask, xarray, git/github, vim
- **Hobbies:** improv comedy (New York Upright Citizen Brigade improv level 1)
- **Athletic:** Triathlon (completed Ironman Maryland - 2.4 miles swim, 112 miles bike, 26.3 miles run), cycling (cycled across Vietnam for 1,000 miles in 14 days)