

# LOW YI XIANG

-CONFIDENTIAL RESUME

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## PROFESSIONAL EXPERIENCE & ACHIEVEMENTS

### Senior Data Scientist, Traveloka

Sep'18 to Present

#### Data Scientist, Traveloka

Oct'17 to Sep'18

Fraud and Abuse (Apr'19 – Present)

- Being the co-founding team member and initial data PIC, shaped the design of a newly minted centralized department to address companywide fraud and abuse problems. Scope spans across (1) central fraud platform (2) remediation system and (3) identity management system. Example of use cases include credit card payments, account take over, identity theft and coupon abuse
- Key Achievements – (1) delivered reduction of fraud rate over 90% translating to > SGD 20M savings over 6 months, (2) Developed a 0.88 AUC model in identity identification that boost application traffic by 50%, (3) Acted as sole project executor, built real time data streaming (PubSub), sub-second data processing (Dataflow) and data stores (Bigtable/BigQuery), and (4) Dockerized sub second machine learning flask application

Credit and Product (Oct'17 – Apr'19)

- Established all requirements and oversaw the execution of data products, engineering and analytics of Traveloka's Credit Product [PayLater](#) from inception to public release. Spearheaded the use of internal data to enhance roadmap design, strategic execution, feature prioritization, credit & risk management and data-driven marketing
- Key Achievements – (1) Produced geo-location models of 70% accuracy that yielded over 400% market growth, and (2) Developed a 0.76 AUC credit model resulted in a 40% reduction of bad loans

### Junior Data Scientist – Commercial Operations, Merck (MSD)

Jul'15 to Oct'17

- Combined segmentation tools, clustering algorithms along with operation research models to enhance the Australian primary healthcare (portfolio of USD 500m+) in allocation of sales force against territory design which yielded ~ 80% revenue retention over cost reduction of 40%. Methodology was replicated for other verticals
- Advanced the engineering infrastructure code base, deep learning libraries, cluster nodes on AWS for big data analysis. Primary use case was to understand patients' response to the company's products. This had enabled justification of continued government subsidy and strategic allocation of resources

### Others

- Google Squared, Singapore [Jul'14 – Jun'15]
- Nielsen Data Science Internship [May-Aug'12]
- Community Leader of Data Science Singapore. (Sep'15 – Present) [\[Fb link\]](#) [\[Meetup Group\]](#)

## EDUCATIONAL QUALIFICATIONS

- Nanyang Technological University Deans list, Accelerated Bachelor's Programme
- B.Sc. Statistics and Mathematics (Honours) with Minor in Business
- Distinction in Final Year Project focused on optimization in Machine Learning algorithms

## MISCELLANY

- Software: R, Python, Unix/Bash, SQL, GCP
- Languages: English (Native), Chinese-Mandarin (Fluent)
- Interests: Photography, Travelling, Recreational games
- Skills: Machine Learning, Statistical Analysis, and Algorithms

## REFERENCES

- Available upon request

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