HUANG, Xiao

+65 80397262/ +86 15522133486 | e0878468@u.nus.edu | https://alberthuang.xyz/

4 Engineering Drive 3, Singapore

EDUCATION & COURSEWORK

National University of Singapore (NUS), Class of 2025 (Aug 2021—Present) Singapore

Bachelor of Engineering (BEng) in Electrical Engineering, Specialization in Industry 4.0, Minor in Business Analytics

GPA: 4.50/5.00, Dean's List for AY2022/23 SEM2

INTERNSHIP EXPERIENCE

LeetCode, *Product Manager Intern, Shanghai, China* **Apr 2023 - Aug 2023**

- Led and collaborated with Recommender and Ranking Algorithm development; improved the PV-CTR by 5 times compared with the previous algorithms.
- Collaborated with a cross-functional team of developers to resolve key issues in LeetCode products and improve user experiences.
- Designed and engineered the deep-learning framework and environment for collaborative filtering, XGBoost training.
- Collaborated with system dynamics design of the overall program to improve the robustness of the online IDE for LeetCode.

Roland Berger, *Part-time Assistant (PTA), Shanghai, China* **Dec 2022 - Jan 2023 & 2023 H2 (Sep 2023 - Feb 2024)**

- Conducted in-depth research on new energy vehicles and related OEM industries, resulting in the preparation of monthly reports for client companies (new power car companies).
- Analyzed market conditions and trends, collected and analyzed domestic and foreign market data using Excel, Python and other tools, resulting in data-driven insights and visual representation of findings.
- Assisted the project team in conducting expert interviews with executives, and organized and summarized interview minutes to extract key insights and perspectives.
- Utilized ThinkCell and ISlides to design visually compelling presentations, effectively communicating key findings and insights based on industrial data collected.

EY-Parthenon, *Project Intern, Shanghai, China* **Apr 2022 - Aug 2022**

Joined a domestic OEM project team to assist the consultants in strategic analysis of the domestic and foreign OEM industry and the EV industry. Main work contents include:

- Collaborated with project team members to conduct in-depth research on OEM and NEV companies, resulting in the creation of comprehensive monthly reports for the client company.
- Collected and analyzed domestic and foreign market data using Excel, Python and other analysis tools so as to facilitate the quantitative analysis of the project.
- Coordinated and facilitated expert interviews, effectively organizing and summarizing key insights and perspectives.
- Created visually compelling presentations, effectively communicating key findings and insights based on data collected and industry insights garnered from conferences.

PROFESSIONAL/RESEARCH EXPERIENCE

IW-Integration of collaborative filtering to predict the demand of electricity in EV charging grids **Aug 2023 - Present**

Undergraduate research assistant, Singapore

Applied machine learning algorithms to identify features of EV changing data and develop collaborative filtering algorithm to build recommender system to predict the demand of EV charging electricity. The project is under the supervision of IEEE Fellow Prof. Dr. Dipti Srinivasan.

UROP-Clustering Algorithm Improvement for Smart Grids **Aug 2022 - Apr 2022**

Undergraduate research assistant, Singapore

Independently proposed, developed, and implemented Bayesian clustering algorithms under the guidance of Prof. Cheng Xiang and the supervision of Dept. of Electrical and Computer Engineering at NUS, resulting in improved accuracy and computational efficiency in TOU dynamic pricing in smart grids and EV charging networks.

YEAH **Apr 2022 - Nov 2022**

Startup Co-founder, Project manager, Hong Kong SAR

Led a team of developers to deliver a project of WEB 3.0 education, specifically in the areas of decentralized finance (Defi) and non-fungible token (NFT) development, resulting in a successful launch and adoption of the projects.

Research on Dynamic Pricing in Upgrade Service Products on Utility Equilibrium (publication under review) **Aug 2020 - Nov 2021**

Co-Author, Tianjin, China

Collected and analyzed large-scale data to develop a dynamic pricing model that addresses the challenges of pricing upgrade service products in the airline industry, resulting in improved revenue and customer satisfaction. Published a paper in SSCI Zone 2 on the application of dynamic pricing techniques to upgrade service products, using utility equilibrium models with the supervision of Prof. Guihong Zhao from CAUC.

Patent: A New Kind of Electric Pencil Sharpener CN201220757077.X. *Inventor*

HONORS & AWARDS

NUS QET: Band 3, Mother Tongue: Mandarin

KPMG #BaseCamp Top2 in China mainland;