

Handi (Andy) Xie

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EDUCATION

M.S. in Computer Science

May. 2023 - Dec. 2024

Boston University

Boston, MA

- **Courses:** Deep Learning, Artificial General Intelligence, Distributed Systems, NLP, Database Design.

B.S. in Computer Science

Aug. 2016 - Dec. 2020

University of Illinois at Urbana-Champaign

Champaign, IL

- **Courses:** Database Systems, Applied Machine Learning, Artificial Intelligence, Data Mining, Numerical Analysis, Probability and Statistics, Software Engineering, Data Structures, Algorithms, Virtual Reality

PROFESSIONAL EXPERIENCE

Data Scientist (Full-time)

Mar. 2021 - Dec. 2022

TanTan, Hello Group Inc.

Beijing, China

- Gathered and cleaned user behavior data with HiveQL, performed feature engineering, built ensembled deep learning models in Python to predict churn users and user life-time values, with over 90 % AUC-ROC and F1.
- Designed Casual Inference methods for online-advertisement scenarios in replace of A/B Test with R.
- Designed data pipeline and constructed data dashboards. Conducted cluster analysis on anomalies.

Technical Project Manager (Internship)

Sept. 2023 - Present

X-lab, BU Spark!

Boston, MA

- Orchestrated cross-functional teams to develop data-driven analytics for social issues in Boston.

Software Engineer (Internship)

Jun. 2018 - Aug. 2018

Backend Development, DeTechnique Technology

Shenzhen, China

- Implemented and unit-tested **RESTful APIs** for Android application. Optimized MySQL queries by 30%.

RESEARCH EXPERIENCE

Research Assistant

May. 2023 - Present

Bitlab, Boston University

Boston, MA

- Working with Professor Dokyun Lee towards a publication: A case study on how generative artificial intelligence impact traditional search engine and Q&A forum's ecosystem (Reddit, StackOverflow).

Directed Study

Sept. 2023 - Present

- Supervised by Professor Iddo Drori: multiple agent coordination on Retrieval Augmented Generation

PROJECTS

Lean Marketing: Info-stream Advertisement Optimization

Feb. 2022 - Dec. 2022

- Architected Tantan's lean marketing strategies using RTA (real-time marketing APIs) with deep learning.
- Reduced 5% on CAC (Customer Acquisition Cost) for second-day retention users, over 15% on CAC for the weekly retention users on info-stream advertisements. **Saved marketing budget over \$150k/month.**
- Led cross-departmental collaboration with marketing & growth and information security.

Analysis of Tantan Female Users

Oct. 2021 - Dec. 2021

- Leveraged k-means clustering to partition a 200k+ churned female users into five subgroups.
- Collaborated closely with cross-functional product and engineering teams to offer targeted product strategies based on customer segmentation, achieving a 2.5% increase in second-day retention.

Tantan Experiment Platform

June 2021 - Aug. 2021

- Conceptualized, architected, and implemented experimental science methods (Propensity Score Matching, Synthetic Control Methods, CUPED) for Tantan's Experiment Platform, reducing reopen rate to 3%.
- Built evaluation methods for content operations and recall advertisements; summarized comprehensive insights that enabled the management team to prevent loss by 12% in six months rapidly.

TECHNICAL SKILLS

- **Programming:** Python (Airflow, Flask, Selenium, PySpark, PyTorch, Keras), Go, SQL, R, JavaScript
- **Data Tools:** Tableau, Excel, Databricks, LaTeX, Git, Linux, MySQL, HiveQL, Hadoop, HDFS
- **Data Science Methods:** A.I. (LLM fine-tuning, Prompt Engineering, AGI Agents), Deep Learning (RNNs, LSTM, GNNs, GANs, VAEs), A/B Testing, Database Management, Data Visualization (Seaborn).