

ANDREW XIA

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SELECTED WORK EXPERIENCE

Flagship · *Founding Engineer* · San Francisco, CA

Oct. 2022 - May 2024

- Flagship is a marketplace to connect influencers with brands to let influencers discover new brands and sell their products to their community. As the first engineer hire, I built every product at the company, working on full-stack engineering, design, user interviews, and infra & deployment.
- Tech lead for Flagship Marketplace (marketplace for influencers to discover new brands & products) and Brand Engine (main revenue driver for Flagship through brand campaigns, gifting, discounts, notifications, and email marketing).
- Set up Pinecone vector database to support embedding models for product search, and built a LLM-based product classification system via Amazon taxonomy.

Snorkel.ai · *Software Engineer* · San Francisco, CA

Dec. 2020 - May 2022

- As an engineer on the platform team, contributed to internal infrastructure work in CI/CD improvements, containerization of microservices, and deployment on Kubernetes.
- Completed enterprise readiness full-stack work including SSO, RBAC, custom user invite links, and air-gapped on-premise software delivery.
- Improved Snorkel's ML infrastructure by migrating backend from Pandas single-process compute to Dask multi-process compute and improved parallel compute speed by 2-3x. Added jobs observability dashboard.

Lime · *Machine Learning Engineer* · San Francisco, CA

July 2019 - Dec. 2020

- Trained a CNN to evaluate scooter parking and improved parking compliance globally by 5%. Wrote a [blog post](#) and filed US patent 12154325.
- Worked on Lime's backend for juicer bundling endpoints to support collecting multiple scooters for recharging at a time.
- Maintained data engineering infrastructure, upgrading Airflow on AWS EKS via big bang migration, wrote ETL Pipelines for computing revenue metrics.

Universidad de Chile · *Fulbright Research Scholar* · Santiago de Chile

Jan. 2019 - Sept. 2019

- Advised by Prof. Jose Correa as part of Fulbright Fellowship.
- Developed a model for pricing products based on online reviews through Bayesian updates, paper accepted to NeurIPS 2020 Workshop on ML for Economic Policy.
- Implemented Stackelberg-game based program to mitigate fare evasion on Transantiago bus network.

EDUCATION

Massachusetts Institute of Technology · Cambridge, MA

M.Eng., Computer Science (2018)

B.S., Mathematics & Electrical Engineering and Computer Science (2017)

SELECTED RESEARCH & PROJECTS

Dynamic pricing with Bayesian updates from Online Reviews

J. Correa, M. Mari, Andrew Xia (Neurips Workshop on ML for Economic Policy 2020) [arxiv](#)

Implementation of an Elliptic Curve Hardware Accelerator with Applications to Leakage-Resilient Cryptography

C. Juvekar, U. Banerjee, Andrew Xia, K. Brahma, Y. Kalai, A. Chandrakasan (2019)

Thresholdizing lattice based encryption schemes

Andrew Xia (M.Eng. thesis 2018) [link](#)

SKILLS AND INTERESTS

Service

MIT 2017 Alumni Council Webmaster

Computer Languages

Python, Typescript, React, Java, HTML/CSS, Ruby, Assembly, C, SQL

Human Languages

fluent in English & Chinese; conversational in Spanish & Japanese & German

Interests & Hobbies

Photography, Cycling, Hiking, Skiing