Ryder Xue

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EDUCATION

Carnegie Mellon University, Tepper School of Business — Pittsburgh, PA
Bachelor of Science in Business Administration; Additional Major in Statistics and Data Science — *Expected May 2029*

- QPA: 4.0/4.0. Relevant Coursework: Regression Analysis, Multivariate Analysis, Probability Theory, Finance, Accounting, Marketing, Microeconomics, Fundamentals of Programming and Computer Science.

EXPERIENCE

ByteDance — Beijing, China
UGC AI Strategy Intern — *May 2026 – Aug 2026*

- Engineered a scheduled SQL data-extraction pipeline for evaluation workflows; evaluated precision and recall for 50+ human reviewers and four post-trained LLMs across ~20 test sets and corresponding taxonomy version histories.
- Iterated classification prompts and taxonomy standards on fixed test sets, raising LLM precision from 71% to 85% and recall from 60% to 85% within one month; post-training remained fixed, with the best-performing model selected after each revision.
- Designed and ran a randomized survey experiment with 133 participants across three arms to test how useful-comment density affects perceived value; translated hypotheses into survey design, sampling, and statistical analysis to inform comment-quality evaluation.
- Initiated a call-to-action classification workstream and iterated evaluation standards; drafted initial CTA and comment-evaluation requirements incorporated into final PRDs, and flagged incompatible mappings during an eight-level to three-tier taxonomy migration.

Nutrition Alligators — Chongqing, China (Hybrid)
Co-Founder & Marketing Manager — *Nov 2023 – Nov 2025*

- Co-founded an açaí supplement brand that generated RMB 1.2M+ in revenue from Apr 2024 to Aug 2025; owned marketing, day-to-day livestream operations, and livestream ROI management within a 16-person team; exited in Nov 2025.
- Developed SKU, pricing, and customer-segmentation plans; managed paid social and operations across 500+ Douyin livestreams, coordinating outsourced creative and media buying and monitoring CPM and ROI; supported product validation through 30+ factory and lab visits.

Carnegie Mellon University — Pittsburgh, PA
Teaching Assistant, 15-112 Fundamentals of Programming and Computer Science — *Aug 2026 – Present*

- Lead a 25-student recitation, a 12-student AI-assisted coding lab, and a 6-student small group; teach recursion, object-oriented design, and algorithmic problem-solving alongside office hours and grading (~15 hours/week).
- Lead test-set review for the course's AI grading pipeline; contribute to prompt refinement and output review, develop practice problems and course materials, and standardize grading rubrics with fellow TAs.

Stripe, Inc. — Remote
Product & Operations Intern — *Jul 2024 – Aug 2024*

- Researched payments infrastructure, including API gateways and tokenization, and monetization strategies; collaborated in a four-person team to present competitive benchmarking of Stripe Radar to Stripe executives.

PROJECTS AND RESEARCH

Frolio — frolio.net
Founder & Full-Stack Developer — *Feb 2026 – Present*

- Defined product scope and user flows for an English/Chinese fragrance platform, combining collections, wishlists, wear journals, and discovery; built and launched the product as a solo founder using AI coding tools.
- Designed discovery around natural-language intent across 150K unique fragrances; translated user requests into semantic search, attribute filters, and exclusions, and incorporated dislike feedback and repeat avoidance into daily recommendations.
- Shipped a beginner Taste Finder, AI shelf scanning for up to 24 bottles, and moderated forums; implemented Stripe subscriptions and signup-conversion tracking to support monetization and funnel analysis, alongside production monitoring and backups.

Independent Research
Self-published working papers — *Oct 2026*

- Cosmetics and recession resilience: analyzed 812 monthly observations across nine U.S. recessions; found no dependable spending advantage over clothing and identified sensitivity to the earliest episode; published an 18-page paper and replication archive.
- NBA rookie production: assembled 819 verified development outcomes from 2010–2024 and 68 features; compared regularized regression and boosting models with a draft-position baseline in a retrospective test of all 59 picks from 2025.

SKILLS AND AWARDS

- **Analytics:** Excel, PowerPoint, SQL (PostgreSQL), Python (pandas, NumPy), R/RStudio; experiment and survey design, regression.
- **Product and Marketing:** PRDs, user research, human and LLM evaluation, prompt engineering, SQL data pipelines; livestream e-commerce, CPM/ROI management, Adobe Premiere Pro and After Effects.
- **Awards:** FBLA China Nationals: Website Design 1st, Entrepreneurship Top 10; International Economics Olympiad (Nationals): Cum Laude, Team Bronze; John Locke Economics Essay: Commendation (Top 16%).
- **Languages and Interests:** English and Mandarin (native); fragrance, jazz drumming, F1, skiing, poker.