

Luoqi Xu

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EDUCATION

National University of Singapore

Aug 2023 - May 2027 (Expected Graduation)

Bachelor of Computing in Computer Science, Minor in Statistics

Singapore

- **Awards & Programmes:** Dean's List (AY24/25 Sem 1), Top Student award for CS1010A Programming Methodology, Honour List of Student Tutors, NUS College Honours Programme

EXPERIENCE

Jane Street

May 2026 – August 2026

Software Engineer Intern

Singapore

- Designed and built a standalone backend service to replace a legacy module embedded in a general-purpose integration framework, publishing internal state updates to an external platform under strict protocol constraints.
- Architected a three-layer design (validating upstream interface, deterministic reconciliation core, thin transport) that enforces platform constraints **before** sending, removing a class of rejection-driven state drift that previously required manual recovery.
- Reverse-engineered undocumented protocol behaviour by building a harness to drive the platform's test environment and running systematic experiments
- Generalised the core abstractions mid-project so a second internal team with a different data model could share one interface.

TikTok

Jan 2026 – May 2026

Backend Software Engineer Intern

Singapore

- Developed Go microservices for TikTok's Money Platform order & contract system, a mission-critical payments infrastructure handling global subscription and order processing.
- Spearheaded an observability initiative, building a comprehensive metrics system spanning 7 services with a combined QPS of **400+**, leveraging Kafka and Hive for asynchronous offline processing.

Binance

July 2025 – Dec 2025

Backend Software Engineer Intern

Singapore

- Developed features for and maintained a distributed API gateway serving full-site products with peak traffic of **560,000 QPS**, ensuring **99.99%** availability.
- Co-architected and deployed an **AI Log Triage Agent** leveraging FastAPI, Google's ADK framework and Drain3 to cluster **32k+** logs, correlate code changes with errors and perform root-cause analysis within **5** minutes; presented the tool to senior tech leaders including the CTO.

ByteDance

Feb 2025 – June 2025

LLM Coding Trainer Intern

Singapore

- Co-authored a novel LLM benchmark for competitive programming, building a high-quality algorithmic dataset and optimising the processing pipeline to **20%** of its original runtime across **3,000+** training labels.

PROJECTS

Dexterity Dash | AI-Powered Clinician Support Portal

- Built a full-stack clinician portal (Next.js, React, TypeScript) with a Retrieval-Augmented Generation (RAG) pipeline over a vector database, surfacing patient insights and personalised rehabilitation plans.
- Developed a scalable backend using Python and Flask, containerized with Docker for deployment.

Strikefactor | Python Baseball Simulator

- Built a 2D baseball simulator in Python with a custom pitch-trajectory physics engine and a state-aware Q-learning AI pitcher that selects pitches from live game state (count, outs, base runners).

LEADERSHIP & CO-CURRICULAR ACTIVITIES

- **Software Engineer, NUS Fintech Society:** Engineered a careers platform backend (Node.js, PostgreSQL, Prisma) with a modular TypeScript architecture.
- **Teaching Assistant, NUS Computing:** Mentored 35+ students for two Computing Modules, achieving a 4.9/5.0 feedback rating. Automated submission processing for 200+ students via Python scripts.
- **Founder, Wiffleball Interest Group:** Founded and grew a university sports community to over 60 active members.