

GINA XU

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EDUCATION

Northeastern University

Master of Science, Computer Science, GPA 3.95/4.0

Vancouver, BC

Jan 2024 – May 2026

Nanchang University

B.A in History & Archival Studies, GPA 3.66/4.0

Nanchang, China

Aug 2019 – May 2023

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Java, Python, HTML, CSS, SQL, Bash, JSON

Frameworks & Libraries: Node.js, Express.js, React, React Native, Next.js, Tailwind CSS, Material-UI

Backend & Database: SQL, MySQL, PostgreSQL, MongoDB, Supabase, Firebase, RESTful APIs, Prisma

Tools & DevOps: Git, Claude Code, LLMs, Amazon AWS, Cloudflare, Jest, Postman, Docker, YAML, TailwindCSS, Agile

WORK EXPERIENCE

Software Developer

Ours TCF

Vancouver, BC

Nov 2025 – Present

- Spearheaded a cross-functional team to develop and launch [a profitable commercial language platform](#) with **3,000+ dynamic questions**, architecting a decoupled storage solution using **Supabase** for structured data and **Cloudflare R2** for media assets.
- Engineered an **LLM-powered** vocabulary system via OpenRouter API with instant translations cached to the database to reduce costs, combined with an Ebbinghaus **spaced repetition algorithm** to drive personalized learning and user retention.
- Architected scalable relational schemas and secured user data via **Supabase Auth** and Row Level Security (RLS), while establishing frontend technical standards to deliver a **responsive, mobile-first** UX with optimized skeleton loading states.
- Integrated **Stripe** for automated subscription billing, successfully bringing the product to profitability with **100+ active users** and driving a robust **20% free-to-paid conversion rate** via high-value analytics and premium mock exams.

Mobile Development Teaching Assistant

Northeastern University

Vancouver, BC

Sep 2025 – Dec 2025

- Mentored a cohort of **50+ graduate students** in cross-platform mobile architecture, conducting code reviews to debug complex React Native state management, Flexbox layouts, and navigation routing to accelerate assignment deliveries.
- Evaluated and provided technical feedback on 200+ mobile application assignments, enforcing industry-standard clean code practices, **Git** version control, and optimal component rendering strategies to elevate codebase quality.
- Facilitated full-stack integration workflows, troubleshooting advanced technical blockers related to Firebase Authentication, RESTful HTTP requests, and native device APIs (Camera, GPS) to elevate students' final project architectures.

Software Developer Intern

SuoGoGo

Burnaby, BC

May 2025 – Sep 2025

- Collaborated within a 10+ member agile team to build a **B2B logistics portal** using **React, TypeScript, Jira, and Git** successfully delivering the **MVP** beta version that supported the onboarding of 20+ initial logistics partners.
- Integrated 15+ complex **RESTful APIs** to securely synchronize multi-tenant shipping data, proactively managing network latency by implementing robust error boundaries and skeleton loaders that decreased perceived page load time by ~30%.
- Translated Figma prototypes into responsive web interfaces utilizing **Tailwind CSS**, establishing a centralized library of 20+ **reusable UI components** that reduced codebase duplication and accelerated frontend development speed by ~40%.

PROJECTS

[Mastodon Archive Viewer](#)

React, TypeScript, Vite, Dexie.js (IndexedDB), Tailwind CSS, Fuse.js

Dec 2025 – Jan 2026

Personal Project: Client-side web app for parsing, exploring, and persistently storing Mastodon data archives

- Engineered a zero-backend, offline-first data pipeline utilizing @zip.js to extract 20,000+ interactions directly in-browser, coupled with Dexie.js (IndexedDB) for persistent client-side storage to ensure strict data privacy and seamless offline access.
- Optimized UI rendering via @tanstack/react-virtual, guaranteeing 60fps infinite scrolling and time-indexed anchor navigation across 15,000+ posts, alongside an interactive **Recharts dashboard visualizing** engagement metrics.
- Developed advanced data workflows featuring a Fuse.js full-text search delivering sub-100ms content retrieval across 15,000+ records, multi-account merge strategies, and an optional **Google Drive OAuth** for secure cloud backups.

[Tomatch](#)

React Native, TypeScript, Firebase, Expo, LLMs

Team Project: AI-powered mobile app for grocery price tracking and trend analysis.

Apr 2025 – Jun 2025

- Engineered the cross-platform mobile interface using React Native and Expo, implementing **high-performance interactive charts** to visualize price trends while utilizing **FlashList** to guarantee a strict 60fps rendering for extensive grocery catalogs.
- Architected a hybrid receipt parsing pipeline combining **on-device OCR** and lightweight LLMs for structured JSON extraction, integrating **vector search** to normalize disparate grocery items into a unified catalog with **98%+ accuracy**.
- Streamlined cross-platform CI/CD pipelines via Expo Application Services (EAS) for automated deployments, leveraging Over-The-Air (OTA) updates to **bypass app store review cycles** and accelerate bug-fix rollouts to users by **over 50%**.