

XIAOHONG (BILLY) XU

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Education

University of Waterloo

M.Eng., Systems Design Engineering

Sep 2024 – Oct 2025

Waterloo, ON

Simon Fraser University

B.Sc., Computer Science

Sep 2020 – Jun 2024

Burnaby, BC

Technical Skills

- **Languages:** C/C++, Java, Python, TypeScript/JavaScript, SQL, HTML/CSS, Shell (Bash)
- **Frameworks:** React/React Native, Expo, Next.js, Node.js/Express.js, Spring Boot, MyBatis, Angular, Vue.js
- **Databases & Cloud:** MySQL, PostgreSQL, Redis, MongoDB Atlas, AWS (EC2, S3, Lambda, SES, IAM, EventBridge, CloudWatch), Google Cloud, Vercel, Expo/EAS
- **Tools:** Git, OpenAPI/Swagger, Postman, CI/CD, GitHub Actions, NGINX, PM2, REST APIs, Joi, Azure, GCP

Professional Experience

Axon Health

Technical Lead

Aug 2025 – Present

Ottawa, ON / Remote

- Led end-to-end delivery of a **HIPAA-compliant, multi-tenant healthcare engagement platform** spanning a staff-facing web CRM and a client-facing mobile app for communication, care coordination, meetings, activities, documents, and guided recovery tools; now used by **10+ organizations**, with iOS and Android apps live across North America.
- Served as the overall technical owner in a fast-moving startup, partnering directly with the CEO and driving requirement breakdown, system design, implementation, testing, deployment, documentation, onboarding, and frequent weekly releases across web and mobile.
- Designed core platform architecture for secure scale, including **database-per-tenant isolation on MongoDB Atlas, runtime DB routing/model-factory patterns, role-based access control**, notification/messaging infrastructure, and multi-method authentication flows such as OTP, email-based auth, and QR-based authenticator login.
- Led production delivery and engineering operations across **AWS, NGINX, PM2**, and **OpenAPI/Swagger**, while driving code reviews, task delegation, technical decisions, and AI-assisted workflows to support rapid weekly releases.

Xliium

Co-Founder / CTO

Jul 2025 – Present

Ontario, ON

- Founded a client-facing digital solutions business serving **local businesses**, leading client communication, requirement discovery, and translation of branding, and online growth needs into production websites and operational workflows.
- Delivered and maintained websites for **5 clients** through migrations, UI redesigns, SEO improvements, booking integrations, and ongoing enhancements to strengthen digital presence, brand presentation, and customer acquisition.
- Extended third-party booking platforms with custom workflow enhancements using **AWS Lambda, Google services**, and **Vercel**, enabling reminders, automated responses, lower operating costs, and more efficient client operations.

Batchship Inc.

Full-Stack Engineer Intern

Feb 2024 – Nov 2024

Santa Fe Springs, CA, USA / Remote

- Integrated multi-carrier shipping APIs including UPS, USPS, FedEx, and Amazon for **100+ business clients**, expanding delivery coverage and reducing failed shipments.
- Built logistics workflows such as batch order upload, rate calculation, **Stripe**-based payments, and synchronization with **ShipStation** and **TikTok Shop** reducing manual fulfillment time by about **60%**.
- Authored external API documentation and supported partner integrations, enabling third-party businesses to onboard shipping services and resolve API issues efficiently.

HackHub

Software Engineer Co-op

Aug 2023 – Jan 2024

Vancouver, BC

- Built and launched responsive web platforms for robotics education and global hackathon programs, supporting registration, event operations, and participant resource access.
- Enhanced and maintained a full-stack hackathon system used by **500+ contestants and judges** across dual-location events.