

XIAOHONG XU

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Education

Simon Fraser University, Burnaby, BC

Sep 2019 - June 2024

- B.Sc. in Computer Science

University of Waterloo, Waterloo, ON

Sep 2024 - Present

- Master of Engineering in Systems Design Engineering
- Expected graduation: Sep 2025

Technical Skills

Programming Languages: C/C++, Java, TypeScript/JavaScript, HTML/CSS, Python
Frameworks: React/React Native, Nextjs, Express.js/Node.js, Spring Boot/MyBatis
Databases & Cloud Services: MySQL, MongoDB, Redis, AWS (EC2, Amplify, S3), Microsoft Azure, Git
Development Tools & Environments: Visual Studio Code, IntelliJ, PyCharm, Android Studio, Jupyter Notebook

Professional Experience

Batchship.Inc. (MERN Stack, Nextjs, Redux, JWT, AWS (S3, EC2), CircleCI, PM2)

Feb 2024 – Nov 2024

Full-Stack Engineer Intern

- Integrated APIs from multiple carriers (UPS, USPS, Amazon, GLS, FedEx), enhancing shipping service support for a warehouse management system used by 50+ clients.
- Developed key features including single/batch order uploads, shipments rate calculations, online payments (Stripe API), and order synchronization with platforms like Shipstation and TikTok, streamlining order processing and cutting task completion time by 60%.
- Collaborated with UI/UX designers to design and deploy a responsive and visually appealing company landing page.
- Built secure, scalable APIs for third-party carrier integrations and provided client support, resolving technical issues such as failed shipments, API integration challenges, and creating detailed developer documentation..

LeGT.ai (LLMs, Next.js, Express.js, OpenAI API, MongoDB, PDF decoding/automation)

Nov 2023 – Feb 2024

Web developer Intern

LeGT.ai, a startup leveraging artificial intelligence to streamline client intake, legal assistant, and document generation processes for legal professionals.

- Spearheaded the automation of the H1B visa application process, reducing manual effort by 50% through form validation, regex, and automated PDF data entry.
- Automated O-1 visa application template generation by integrating ChatGPT 3.5 API, enabling dynamic document uploads and recommendation letter creation.

Hackhub (MERN Stack, AWS (S3, EC2), Vercel, Bootstrap)

Aug 2023 - Jan 2024

Software Engineer Co-op

- Collaborated with UI/UX designers to develop a responsive website for HackHub's kids robotics programming platform and 2023 HackHub Hackathon competition landing page, showcasing program details, registrations, and event resources.
- Enhanced and maintained the full-stack platform for the 2023 HackHub Hackathon, enabling seamless participant submissions and scoring for 500+ contestants and judges. Successfully supported a dual-location Hackathon event at UW at Seattle in USA and Nanjing University of Aeronautics and Astronautics in China, coordinating a platform used globally.

Freelance

Sonwly Wechat Mini App (MERN stack, React Native/Admin , Spring Boot/Mybatis, MySQL, Redis)

Sep 2024 - Present

Full Stack Developer – Independently developed, launched, and maintained a WeChat mini-app and a React Native mobile app.

- Built a WeChat mini-app, later expanding to a React Native mobile app with display 10+ ski resort data, real-time group chats, social interaction (follow, like, posts, chat, share) and an e-commerce platform with merchant dashboards.
- Designed and deployed the Spring Boot/MyBatis backend, secured with JWT/OAuth, managed MySQL/MongoDB databases, integrated Redis for caching and optimizing e-commerce transactions, and implemented FCM push notifications for real-time alerts on order updates and social interactions of message notifications.
- Developed and deployed Selenium & BeautifulSoup scripts on AWS EC2 to automate ski condition extraction from 10+ resorts, providing real-time updates for **1,000+ skiing enthusiasts** in BC and California.

Promatch (LLMs, Next.js, Express.js, Qwen and Xfyun API, MongoDB, Prompt Engineering)

Sep 2024 - Nov 2024

Team Leader - Led a team of 2 developers in building ProMatch, an advanced AI-powered (ATS)

- Designed and implemented end-to-end solutions with backend AI logic, prompt engineering, and database integration. This infrastructure enabled HR to manage the hiring process more efficiently, from screening candidates to final job offers, and facilitated automated generation of requirements, job descriptions, interview questions, and customizable email templates within the platform.
- Developed and implemented a feature to send AI-driven interviews to candidates, integrated Xfyun speech-to-text API for real-time transcription, and utilized Qianwen API to analyze interview responses, providing automated scores and comprehensive evaluations.