

Jocelyn Xu

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SKILLS

- **Languages:** Javascript/Typescript, Java (OOP), Python, C, SQL, Shell scripting, HTML, CSS
- **Framework:** React, Tailwind, Flask, Next.js, Java Swing, Three.js, Sentence Transformers
- **Tools:** AWS, PostgreSQL, Jira, Postman, Figma, Node.js, Microsoft Office Suite (Excel, Word, PowerPoint, Outlook)

EDUCATION

University of Waterloo (UW)

Sept 2024 – Apr 2029

Computer Science, Honours, Co-op Program

Waterloo, ON

- CAV: 95.3

EXPERIENCE

Bank of Montreal (BMO) Software Developer |

May 2025 – Dec 2025

Help Center AI Chatbot

AWS Lambda, Bedrock, OpenSearch, Javascript

- Write lambda functions, S3 buckets for bedrock knowledge base, web scraping olbb sites to create chatbot to replace Kasisto vendor to save bank thousands? of dollars
- started off as a hackathon idea (internal vef / tps hackathon?)
- postman testing api endpoints w aws api gateway

Lexicon Design System

Angular, Typescript, Storybook, Figma

- Created 10+ responsive and **WCAG 2.2 AA** accessible **Web Components**, driving migration from Angular to framework-agnostic components, expanding the Lexicon Design System's adoption to **300+** developers and UI/UX teams across BMO.
- Automated 250+ unit and E2E testing with **Jest** and Playwright, achieving **85%+** coverage and significantly reducing regression defects in CI/CD pipelines.
- Managed **bi-weekly release cycles** with **semantic versioning** and branching workflows, streamlining component development and resolving **200+** bugs in SIT environments. This boosted developer efficiency by **48%** while ensuring consistent, accessible, and user-centered UI/UX across product launches serving **60,000+ clients**.

UW Data Science Club (UWDSC) | *Datathon Coordinator, Developer, VP Development*

Dec 2024 – Present

- Led a team of 8 developers to create hacker, sponsor, and admin application portal with 500+ users for CxC (Canada's largest student run data hackathon)
- Developed **GitHub Actions CI/CD workflows** automating project issue tracking and Discord webhook integration for instant deployment preview notifications, reducing deployment access and manual project management overhead from **minutes** to **seconds**
- Migration from mongodb to postgre, setup design system shadcn express

PROJECTS

ResuMix 🤖 | *Python, Flask, React, Vite, NeonDB, Sentence Transformer, OpenAI*

Aug 2024

- test
- test
- test

TedxUW Website 🤖 | *Java, Java Swing & AWT, Eclipse*

May 2025 – Aug 2025

- test
- test
- test

UWDSC Website 🤖 | *React, Next.js, Tailwind CSS, Mailgun, Three.js*

May 2025 – Aug 2025

- MVC structure
- test
- test

UW CSC Project: Everything Calendar 🤖 | *React, Tailwind, SupaBase, Google Gemini* Oct 2024 – Nov 2024

- A personalized calendar website for students with 30+ users to integrate data from various platforms including Instagram for club events, D2L for course schedules, Devpost for hackathons, and other ICS files
- Built a Python Instagram scraper, utilizing instaloader library and Gemini API to process information from 100+ posts to JSON format for integration with the backend database

AWARDS

- KatyYouthHacks 2023 Hackathon 1st Place (sustainability game)
- Admitted to the Lloyd Auckland Invitational Mathematics Workshop at the University of Waterloo (2023)
- York Region District School Board Director's Achievement Award (Highest Gr9-12 Average), Academic Accomplishment Award (Second Highest Gr12 Top 6 Average), Departmental Subject Award for Mathematics, Departmental Subject Award for Health and Physical Education