

Janet Fu

☎ 647-974-8863 | ✉ janetfu04@gmail.com | Website: itsja.net | 🌐 github.com/CloudyKrypton

Education

University of Toronto

Sep. 2022 – May 2027

Honours Bachelor of Science

Toronto, ON

- Double major in **Computer Science and Philosophy** with a focus in **Systems Programming**
- **Relevant coursework:** Operating Systems, Database Design (Relational data model, SQL), Systems Programming (C, Unix), Computer Organization (Microprogramming), Software Design (Java, Version control)
- **Activities:** Webmaster - Computer Science Student Union, UofT Machine Intelligence Student Team

Experience

Associate Software Developer Intern

May 2025 – Present

Flipp

Toronto, ON

- Maintained backend **gRPC** APIs for Flipp's search platform, enabling a new ML-backed search initiative, using **Golang** and leveraging Hugging Face-based embeddings with **AWS OpenSearch** k-NN for semantic retrieval.
- Improved backend reliability by implementing unit tests in Go and **Ruby**, supporting reliable deployments.
- Ensured database consistency and responded to off-hours on-call incidents using monitoring and observability tools such as **Datadog**, **Apache Kafka**, and **AWS CloudWatch**.
- Spearheaded a multilingual search initiative, winning Best Presentation (solo) at Flipp's Summer Hackathon, by integrating Cohere's *embed-multilingual-v3.0* model with vector search. This initiative is slated for integration into Flipp's production systems in 2026.

Game Design Researcher

May 2024 – May 2025

University of Toronto

Toronto, ON

- Created educational video games for the forensics department, contributing to an increase in student performance using **Python** and modules such as **Pygame**.
- Applied research methodologies to design, test, and refine gameplay mechanics, gaining valuable experience in research design and data analysis. Presented research findings at the Undergraduate Research Poster Fair.

Software Developer Co-op

January 2025 – April 2025

CIBC

Toronto, ON

- Developed and tested **RESTful APIs** for MyClient account management, contributing to an increased response time in the application, by testing in **Postman** and writing **Java** code using **SpringBoot**.
- Ensured continuity among databases in different testing environments, leading to a large increase in efficiency for the application deployment process by writing queries in **SQL** in the Toad developer tool.
- Continued from above, organized and helped run weekly team meetings to sync up testing environments, documenting information using Jira and Confluence.

Web Developer

September 2023 – May 2024

University of Toronto — Work-Study Program

Toronto, ON

- Developed the archival Polish departmental website used by UofT with **React**, **Node.js**, and **Tailwind CSS**.

Projects

Letterfly | JS, Flask, PostgreSQL

- Developed a letter-writing web application using Flask and JavaScript, powered by a PostgreSQL database.
- Supported text editing functionality using QuillJS and translation between languages using the BeautifulSoup API.
- Designed the UI with React using sprites drawn in Procreate to provide a visually engaging experience.

SmartSudoku | Java, Git, MongoDB

- Designed an intelligent Sudoku algorithm in Java, utilizing Java Swing for the graphical user interface.
- Securely stored in-game data in an online database to enable persistent gameplay using MongoDB.
- Optimized code functionality by writing comprehensive end-to-end tests with JUnit, achieving 97% code coverage.

Technical Skills

Languages: Golang, Ruby, Python, Java, HTML/CSS/JS, C/++, SQL (PostgreSQL, MySQL)

Tools & Frameworks: gRPC, Git, Unity (C#), Terraform, React, Ren'Py, BASH