

# Janet Fu

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## Education

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### University of Toronto

Honours Bachelor of Science

Sep. 2022 – May 2026

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, UoT Machine Intelligence Student Team

## Experience

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### 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 UoT with **React**, **Node.js**, and **Tailwind CSS**.

## Projects

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### 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

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

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