

# GILLIAN XU

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## Technical Skills

- **Languages:** JavaScript/TypeScript, C/C++, Python, SQL, Kotlin, Racket, R, HTML/CSS, Dart, Bash
- **Frameworks/Tools:** React, Ruby on Rails, Express, Stimulus, Flutter, Firebase, Git/GitHub, Node, Android Studio

## Work Experience

### Fullstack Developer Intern

Sep 2023 – Dec 2023

DIBBL Y INC

Toronto, ON

- Spearheaded the creation of data filter system for admin users to export data as CSVs, reducing manual review time by **92%**
- Implemented **RESTful API** endpoints using **Ruby on Rails**, **jQuery** and **SQL** queries to retrieve the filtered data
- Developed discounts feature, driving a surge of **10K+** additional monthly orders with exclusive codes for qualifying amounts
- Empowered **30K+** users to tailor their experience by integrating an AI consent feature, using **Ruby on Rails** and **Stimulus.js**
- Achieved a **73%** reduction in page load times by implementing eager loading, pagination, and indexing strategies

### Software Engineering Intern

May 2023 – Aug 2023

AGILMATIC ELECTRIC LTD.

Toronto, ON

- Developed a virtual assistant to handle requests using **DialogFlow**, facilitating order processes for **100K+** monthly customers
- Pioneered the usage of **OpenAI LLMs** and **FastAPI** to elevate response quality and fostering more human-like conversations with **80%** response accuracy, leveraging prompt engineering techniques
- Implemented automated printing system using **Python** for **2.5K+** monthly order details, reducing operational time by **27%**
- Achieved speech recognition with **84%** accuracy in meeting customer order needs by integrating **Google Cloud APIs**

### Software Engineering Intern (Mobile)

May 2022 – Aug 2022

SPOTWORK

Toronto, ON

- Developed end-to-end user onboarding flow for US expansion using **Flutter**, **Dart**, and **Firebase**, driving **40K+** new users
- Enhanced recruiting process through equipment verification, increasing employee ratings and customer satisfaction by **65%**
- Created user registration flow for **100K+** contractors, deploying **Firebase Cloud Functions** to initialize verification statuses

### Junior HTML Developer

Aug 2021 – Dec 2021

MORTGAGE AUTOMATOR INC

Toronto, ON

- Coded structures for **20+** documentation forms and implemented custom variable fields using **HTML** and **CSS**
- Collaborated with a team of **25** developers in **Agile** cycle to conduct tests, complete **Jira** tickets, and resolve bugs to ensure documents fully met client requirements

## Projects

### Consano – Voice-based interface for hospital patients | *Hack the North 2022*

- Built a website to retrieve patient health updates and seamlessly transmit results in patient portals with **React** and **Express**
- Leveraged **NLP API Cohere.ai** to train ML model for predicting changes in patient health based on voice inputs

### Felicity – Productivity app that diagnoses user habits | *Development Team*

- Integrated customizable pomodoro timer for personal work/break times with **Flutter** and **Dart**, optimizing user productivity
- Designed core assessment questionnaire features and tested cross-platform functionality using **Android Emulators**

### Harmony – Real-time messaging and gaming platform | *Hack the North 2020*

- Crafted a responsive user interface using **HTML**, **CSS**, and **JavaScript**, delivering an intuitive and captivating design
- Integrated real-time messaging system using **Node.js** allowing users to send messages through the server using **WebSockets**

## Education

### University of Waterloo

Sep 2020 – Apr 2025 (Expected)

BACHELOR OF COMPUTER SCIENCE, MINOR IN ECONOMICS

- **Awards:** President's Scholarship of Distinction, International Experience Award, Term Distinction
- **Extracurriculars:** Varsity Ultimate Frisbee Captain
- **Relevant courses:** Algorithms, Object Oriented Software Development, Application Development, Databases, User Interfaces