

# Yifei Xu

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## ► SKILLS

**Languages** : Python, C++, C, TypeScript/JavaScript, Perl, Shellsript, SQL, Dart

**Tools/Frameworks** : Git, Flask, Django, Node.js, SQLite, MongoDB, Docker, Svelte, React, React Native, Flutter, HTML, CSS, Bootstrap, Jira, Confluence, Figma

## ► EXPERIENCE

### Full-stack Engineer

Jan 2022 – Apr 2022

*Move With Fleet*

(Remote) Toronto, ON

- Built frontend React components for administrative HR platform and employee analytics according to Figma specifications
- Built cross-platform React Native mobile app to manage geophysical trips and basic profile data, implemented appropriate accompanying backend logic
- Designed simple and scalable Django unit testing suite to verify monetary rewards processing using Pytest-Django

### Software Developer

Jan 2021 – Apr 2021

*eCompliance*

(Remote) Toronto, ON

- Ensured software reliability by developing Flutter integration test framework for iOS and Android apps, expanding test coverage to 100%
- Reviewed pull requests to ensure maximum code quality and avoid bugs

### ASIC Development Assistant

Sept 2019 – Dec 2019

*Huawei*

Ottawa, ON

- Built Flask app to periodically aggregate on-site hardware data into usable data visualizations
- Offered live support in Mandarin to oversea offices in order to setup the app in high-security environments
- Wrote reusable Python scripts to parse data from poorly-formatted text files into organized SQLite tables

### QA Specialist

Jan 2019 – Apr 2019

*OpenText*

Waterloo, ON

- Improved app deployment reliability by developing and maintaining Jenkins CI/CD pipeline with TeamCity and Artifactory integrations
- Upgraded Docker container architecture to better align with industry Linux practices

## ► PROJECTS

### 🌐 osulist.com

- Built a CRUD web app for easy creation and sharing of custom *osu!* rhythm game assets using Flask and MongoDB
- 24/7 up-time, served with Nginx and Gunicorn on a personal DigitalOcean droplet
- Designed a simple yet information-dense UI to streamline site navigation experience (inspired by Hacker News)

### yf\_bot

- Developed a general-purpose Discord bot for testing and learning about various unrelated technologies
- Built a feature to generate linguistically "accurate" tweets for any given Twitter account using Markov chain-based natural language processing
- Created a command to help *osu!* mappers track their mapping progress using data fetched from the *osu!* API

## ► EDUCATION

### University of Waterloo

Sept 2018 – Present

*Computer Engineering, 2023 Candidate for B.ASc*