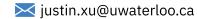
# **Justin Xu**









## **OVERVIEW**

- takes a careful, detail-oriented approach to ensure high-quality work
- uses strong problem-solving skills to quickly apply unfamiliar technologies
- brings an innovation mindset to consistently recommend improvements to products and processes
- languages: Python, TypeScript, C++, Swift, Java, Kotlin, Bash, SQL
- tools: Node.js, Express.js, REST, GraphQL, React, Docker, MongoDB, PostgreSQL, Airflow, Figma

## **EXPERIENCE**

Sep 2021

Apr 2021

Jan 2021

Aug

2020

May 2020

Aug 2019

May 2019

## present Alloy - Software Developer

Vancouver, BC

Python, SQL, Java, JUnit, TypeScript, React

- designed, implemented, tested, and documented an extension to the core algorithm that combines product data from multiple sources
- improved dashboard clarity by creating and integrating performant data fetching endpoints

## FairVentures Lab – Solutions Developer

(remote) Kitchener, ON

Python, Bash, TypeScript, Node.js, React, GraphQL, Docker, Airflow

- built highly-configurable, open-source AI assistants for the insurtech industry
- redesigned a post-processing algorithm to eliminate almost all false positives when parsing text extractions from scanned loss run documents
- combined object detection with word2vec to semantically match images to keywords

## 

## Wish – Full Stack Software Engineer Intern

(remote) Toronto, ON

Python, MongoDB, SQL, Grafana, GraphQL, TypeScript, React

- built a GraphQL API for merchants to manage marketing, and integrated it in a React frontend
- implemented an A/B test for quality-of-life UI improvements, and wrote efficient scripts to monitor a resulting 7.5% increase in product uploads by affected merchants
- prototyped a Pylint checker that suggests efficiency improvements on PyMongo queries

## Osellus – Mobile Software Developer

Toronto, ON

Swift (native iOS), Kotlin (native Android), SQL

- nominated for Co-op Student of the Year for investigating ways to improve app performance
- sped up client-side data processing by 80% by caching data and improving code efficiency

#### COMMUNITY

#### present Loo Labs - Backend Team Lead

(remote) Waterloo, ON

Docker, TypeScript, Node.js, Express.js, Jest, React, CSS, Figma

- collaborated through a full cycle of the HCI design procress within the founding team
- led backend development of the flagship product Waterpark, with an emphasis on documentation, code quality, maintainability, and testing



#### **EDUCATION**

University of Waterloo - Honours Computer Science

Waterloo, ON

**Bachelor of Computer Science, Statistics Minor** 

• 95.4% cumulative average

CS 241: won the course challenge to implement the most optimal compiler (Apr 2020)

Apr 2023 Sep

2018

Sep

2020