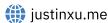
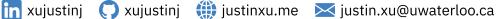
Justin Xu









SKILLS

- careful and detail-oriented approach ensures consistent quality and well-structured code
- very fast learner with strong problem-solving skills
- languages: Python, TypeScript, C++, C, Swift (iOS), Kotlin (Android), Bash, SQL, GraphQL
- tools: Node.js, Express.js, React, Docker, MongoDB, Apache Airflow, Figma

WORK EXPERIENCE

Apr 2021

FairVentures Lab – Solutions Developer

Kitchener, ON (remote)

- delivered open-source AI assistants with a focus on making projects developer-friendly, such as by using Docker environment variables to configure dependency injection
- rewrote a collation algorithm to eliminate almost all false positives when extracting insurance claims from scanned loss run documents
- combined image object detection with word2vec to measure the semantic similarity between an image and arbitrary keywords

designed and deployed an Airflow workflow to run nightly integration tests on an email bot

Jan 2021

> Aug 2020

Wish - Software Engineer Intern

Toronto, ON (remote)

- developed a new GraphQL API for merchants to manage marketing campaigns, and integrated them with a React frontend
- implemented an A/B test for quality-of-life improvements, wrote efficient data aggregation scripts to measure a 7.5% increase in product uploads by affected merchants
- prototyped a custom Pylint checker to predict field projections for PyMongo queries, which would reduce latency and network traffic

Aug 2019

> May 2019

May 2020

Osellus – Mobile Software Developer

Toronto, ON

- developed new iOS and Android features for a flagship microlearning platform
- reduced client-side processing time by 80% by caching data and improving code efficiency
- nominated for Co-op Student of the Year for extensive commitment to improving app performance, including independent research on efficient data representation in Swift

COMMUNITY

present Loo Labs – Lead Backend Developer (Founding Member)

Waterloo, ON (remote)

- collaborated in a tight-knit team on the ideation, prototyping, and user testing of Waterpark, an app that helps UWaterloo students discover clubs and events
 - 四〇
- leading a team of 3 to deliver the Waterpark API, with an emphasis on good development practices – researching tools, writing high-quality code, testing, and documenting
- creating a fully-typed framework based on Express.js and Domain-Driven Design

EDUCATION

Sep

present University of Waterloo - Honours Computer Science

Waterloo, ON

Candidate, Bachelor of Computer Science, Statistics Minor (2023)

- 95.28% cumulative average
- CS 241: won the course challenge to implement the most optimal compiler

Sep 2018