

ANNE WANG

3B Computer Engineering

University of Waterloo

✉ a97wang@uwaterloo.ca
☎ (403) 473-1518
🐙 annewang27
🌐 AnneWang27
🌐 annewang27.github.io

LANGUAGES

Python
Java
SQL
C++
C
Swift
JavaScript
HTML / CSS
OpenGL

TOOLS / FRAMEWORKS

postgresql
SQLite
MongoDB
Flask
Node.js
SpringBoot
React / Redux
Bootstrap
Realm
Firebase
Jenkins
KiCad
Docker / Docker Compose
Concourse
VoiceFlow

EDUCATION

University of Waterloo 2023
Cumulative Average: 86.1%
• Bachelor of Applied Science in Computer Engineering.

WORK EXPERIENCE

Software Developer

Jan 2020 - Apr 2020

Inner Analytics

- **Lead developer** in a small startup in the midst of doubling their clientele.
- Upgraded and refactored a **Flask** backend connected to a **postgresql** database to better support the increased data needs
- Worked closely with healthcare professionals to design and implement better and more efficient methods of communication using improved database structures, api endpoints, and graphs to encourage action from patients.

Software Engineering Intern

May 2020 - Aug 2020

Uber ATG

- Researched and implemented **complex metrics** to analyze a **ML model** used to **label LiDAR data** collected by ATG's autonomous vehicles **without relying on expensive ground truth data**.
- Modified a metric to be a powerful tool to **easily compare model performance** on the same log data.
- Quickly learned how to use a **complex C++ framework** used internally at ATG.
- Presented **bi-weekly deep dives** along with a **final showcase** to all of ATG.

Software Developer: Innovation Labs

Sep 2019 - Dec 2019

CIBC - Live Labs

- Collaborated on a **small team** to create, from **ideation to release**, 3 pilot projects
- Worked closely with PMs and UX designers to develop and release both **native Android** and **iOS apps** from scratch, in a month, which use technology such as a **localized YOLO-based machine learning model for offline real-time image recognition** and **OCR machine learning**.
- Designed and developed a **web app** with a **Spring-based Java REST api backend** utilizing a **Mongo database** and a **frontend designed using React with Redux** and **Bootstrap**.
- **Presented** completed pilot projects to **key stakeholders**
- Received a rating of "**Outstanding**" on the final work term evaluation for my "incredible ability to learn new software and take true ownership of [my] work".

Software Developer in Test

Jan 2019 - Apr 2019

Mappedin

- Implemented key features on a variety of products including a **node.js** based desktop app, an **Android SDK**, an **iOS SDK**, and a **React** based website.

PROJECTS

Cura

SQLite, Flask, Bootstrap, HTML,

github/annewang27/cura

- Developed a **web app** using **Bootstrap** running on a **Flask** backend with a **SQLite** database as a way to curate an online art gallery of my favourite artworks.

Fridge Inventory

SwiftUI, Firebase

github/annewang27/FoodInventoryApp

- Developed an **iOS 13 app** using **SwiftUI** designed to help keep track of groceries during the pandemic.
- **Firestore database** allows **different phones** to access the same data in **real time**.

IBS Symptom Tracker

Swift, Realm, UIKit

github/annewang27/IBS-Tracker

- Designed and developed an **iOS app** using a **Realm database** targeted towards IBS patients
- Created using a combination of **storyboards and programmatic UI elements**, allowing layouts to be **dynamically updated**