

Jake Xia

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SKILLS

LANGUAGES

Javascript, C++/C/Java, Python, Swift, SQL, HTML5/CSS/DOM, Bash

TECHNOLOGIES

- Node.js / Express / Koa
- PostgreSQL / MongoDB / Firebase
- Pandas / NumPy / MATLAB
- React + Redux / Vue
- Docker / Kubernetes / Helm
- Xcode / SwiftUI / CoreData / ARKit
- AWS / Google Cloud
- AutoCAD, SolidWorks, Shapr3D
- Laser Cutting, 3D Printing

EDUCATION

University of Waterloo
Candidate for B.ASc, Mechatronics
2018 – 2023

RELEVANT COURSES

- Algorithms and Data Structures
- Sensors and Instrumentation
- Computer Structures and RTS
- Numerical Methods

INTERESTS

Robotics, 3D Modelling, Product Design, iOS Development, Preventing Climate Change, Indoor Gardening, Photography

AWARDS

Ontario Volunteer Service Award 2018,
Young Photographer of the Year Top 5 / 754 photographers 2019

EXPERIENCE

SOFTWARE ENGINEER @ Clearbanc

Toronto, ON | January 2020 – April 2020

- Engineered 4 RabbitMQ import processes that collect 100K+ daily transactions from 1000+ clients via API integrations with Authorize.Net, Apple AppStore, Google Play, and BigCommerce
- Launched tagging tool to increase visibility on hostile and COVID-affected businesses, preventing thousands in funding from being issued mistakenly
- Automated the tagging of 252 COVID-affected businesses using a PostgreSQL migration, saving 80+ hours of overhead
- Converted a spreadsheet into a funding plan tracking tool integrated with Clearbanc's database and Salesforce, streamlining data interactions for the data science team

FULLSTACK DEVELOPER + COFOUNDER @ DineHere

Toronto, ON | August 2020 – Current

- Launched *DineHere.me* for restaurants to generate a digital menu from just a photo. The QR code menu is contactless and reduced virus spread
- Enhanced the user experience by speeding up menu load time 100x through MongoDB optimizations and intelligent caching
- Built with Koa, AWS, MongoDB, Passport, React, Redux, Heroku and Netlify

WEB DEVELOPER @ University Health Network

Toronto, ON | May 2019 – August 2019

- Led a design team to create a bespoke front-end web framework accessible by CDN that is being adopted by all UHN research facilities
- Modernized information architecture + UI/UX by rebuilding 6 core websites
- Prototyped a firebase web-app that improves waiting rooms by giving patients realtime updates about their journey in the queue and wait-times

PROJECTS

FOOD CENTRIC SOCIAL PLATFORM | Hack:Now 2020

- Instagram but for sharing food pictures / recipes, and engaging with physically closed restaurants to keep people cooking while social distancing. Built with MongoDB and React

CALORIC JOURNAL | Ongoing

- iOS App designed to quickly track caloric intake, ingredients, nutritional information, and quantities of food. Built with CoreData and SwiftUI

EXPENSE MANAGING FOR WEB + iOS | Ongoing

- Cloud app that allows users to analyze spending habits. Shows tendencies, breakdowns, and insights through an intuitive dashboard backed by firebase

PHARMACEUTICAL SEARCH ENGINE | Hack the North 2019

- Web-app for kickstarting the drug development process by predicting the likeness a drug is to succeed, reducing the need for background research