Jake Xia

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SKILLS

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

TECHNOLOGIES
- Node.js/Express/Koa
- Vue/React
- PostgreSQL/MongoDB/Firebase
- RabbitMQ
- XCode/SwifUI/CoreData
- AutoCAD, SolidWorks, Shapr3D
- Adobe Design Suite
- Laser Cutting, 3D Printing

EDUCATION

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

RELEVANT COURSES
- Algorithms and Data Structures
- Microprocessors and Digital Logic
- Sensors and Instrumentation
- Computer Structures and RTS

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 and providing better data to the data science team

WEB DEVELOPER @ University Health Network
Toronto, ON | May 2019 — August 2019

- Lead a design team to create a bespoke front-end web framework accessible by CDN that is being adopted by all UHN research facilities
- Improved information architecture and UI/UX by rebuilding 6 core websites
- Verified designs were effective through user-testing and design reviews
- Prototyped a firebase web app that improves hospital waiting rooms by giving patients real time updates about their journey in the queue and live wait-times

PROJECTS

FOOD CENTRIC SOCIAL PLATFORM | Hack:Now 2020

- Instagram but for sharing food pictures / recipes, and engage 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 analyzes 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

3D PRINTED MODULAR WATER BOTTLE | September 2019

- Prototyping a modular water bottle with interchangeable, screw-on compartments including a filter, ice-core, and tea/fruit infuser

ARKIT FACE TRACKING STICKERS | August 2019

- iOS app that superimposes stickers onto a face, Snapchat style, using ARKit