

Yifan Qu

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EDUCATION

University of Toronto

Bachelor of Science with Specialist in Computer Science and Major in Math

Toronto, ON

Sept. 2019 — Present

TECHNICAL SKILLS

Languages: JavaScript(Typescript), Python, C, Java, Scala, SQL(Postgres), CSS/HTML

Frameworks: React, Angular, Firebase, Node.js, Express, Vue, MongoDB

Developer Tools: Git, Linux, Docker, CI/CD, PostgreSQL, UML, Jira, VS code, Vim, Shell and Bash

EXPERIENCE

Software developer Co-op

May 2022 – Present

Lexpand Law Firm

Toronto, ON

- Participated in building the new portal page using **Angular**, Typescript and bootstrap.
- Partnered with a developer to implement RESTful APIs by **Scala** and **Play** framework

Front-end developer Intern

Jun 2020 — Sept 2020

Heyinzhixian Technology Co., Ltd.

Xi'an, China

- Built responsive web application on mobile for online ordering system using CSS, HTML and **Vue.js**.
- Using **Selenium**, I built out unit and automation tests for over **20** test cases
- Migrated previous app from Vue2 to Vue3 and reduced the memory usage by **54 %**

PROJECTS

Furniture Donating website | *React, Express, Node.js, MongoDB*

Oct 2021 – Dec 2021

- Developed a full-stack web that allows users to publish furniture, donate furniture and contact other donors
- Set up session, authentication and email notification by MongoDB and node-mailer
- Built the database and RESTful backend services using **MongoDB** and **Node.js** to store, track and manipulate data

Panic Mechanic App | *Swift, Fire-base, objective-C, Storyboard*

Jan 2022 – April 2022

- With group of 6 students, produced app that measures heart rate, track triggers and display stress history by utilizing **MVC** model
- Developed new summery section that records anxiety factor by **Swift** and **storyboard**
- Implemented Google and Apple authentication and session by **firebase** IOS SDK

Sorting Algorithm visualizer | *React, Bootstrap*

Feb 2022 — Mar 2022

- Developed website that visualizes sorting algorithms, and provides tutorial pages for learning them.
- Website Supports **5** sorting algorithms(Merge, Quicksort, selection, insertion, bubble) and supports changing the size and speed of the sorting array

File System | *C, Linux*

Sept 2020 — Dec 2020

- Implemented an extent-based file system that supports basic file system operations with FUSE
- Included operations such as formatting disk image, creating and deleting directories or files, writing and reading data, displaying metadata about a file or directory, and setting the size of a file.

Conference System | *Java, Swing, Git*

Oct 2020 — Dec 2020

- Collaborated in a group of 4 to develop highly extensible conference management program by adhering to SOLID principles
- Implemented a GUI using Swing and an event management system which incorporates serialization and OOP design pattern

Student performance prediction by machine learning | *Python, Numpy, scikit-learn*

Oct 2021 — Dec 2021

- Implemented data cleaning, feature selection from the real world source. Trained the modified IRT (Item response theory) model with over **85%** accuracy.
- Implemented 3 Machine learning methods including Linear regression, Naive Bayes, KNN and matrix factorization.