

Sixian Li

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Education

MCGILL UNIVERSITY

B.Sc. Major in Computer Science, Minor in Mathematics

Montreal, QC

Sept. 2017 - Exp. Grad Apr. 2021

- Major GPA: 4.0/4.0, Cum. GPA: 4.0/4.0
- Dean's Honour List (Top 10% of the Faculty)
- Faculty Of Science Scholarship (Top 5% of the Faculty)
- Robert Bruce Scholarship in Science

Work Experience

Front End Developer Intern

Beijing, China

ByteDance

June. 2020 - Aug. 2020

- Created a version management tool for an internal framework. Improved installation and version switching experience
- Developed CMS for a stock app and a customer service website for an insurance company
- Redesigned state management strategy (eliminate as many global states as possible) to avoid useless re-renders
- Extensively used **React Hooks** to manage states and share logic between components
- Partnered with product managers and back end developers to build apps that serve customers' needs

Teaching Assistant (Python)

Montreal, QC

McGill University | COMP202 (Foundations of Programming)

Jan. 2020 - Apr. 2020

- Graded assignments and provide detailed feedback
- Improved students' learning experience by holding weekly office hours to help with assignments and answer questions

Projects

POSTIE

Montreal, QC

JavaScript (Node.js) | GitHub | Create metadata for your next Markdown blog post

Mar. 2020

- Created interactive CLI to generate templates from user input. Manage user config with configstore.js
- Wrote clear documentation with examples

MY EXAMS

Montreal, QC

JavaScript (React) | myexams.now.sh | Get the final exam schedule in one-click

Feb. 2020

- Created functions to process and format data. Handled states with **React Hooks**
- Implemented routers with authorization to restrict accesses with **React Router**
- Greatly improved final exam searching experience for students

PERSONAL WEBSITE

Montreal, QC

JavaScript (React) | www.sixian.li | A feature-rich blog

Dec. 2019 - Present

- Built a customizable personal website with **GatsbyJS**
- Raised issues and fixed bugs for the theme used on GitHub

MCGILL COURSE MAP

Montreal, QC

Python | mcgill-course-map.herokuapp.com | Display of interrelated courses

Jun. 2019 - Present

- Extracted data from McGill's website using **Scrapy**
- Constructed a directed graph from the data. Reversed the graph with the help of NetWorkX
- Visualized the results using **Dash**

Volunteer and Extra-curricular

Active member

Montreal, QC

Computer Taskforce

Sept. 2019 - April. 2020

- Collaborated with team members in fixing bugs and adding extra features to existing apps
- Built web apps for clubs and student groups

Course Work

Computer Science

- Intro to Software Systems / Algorithms and Data Structures / Intro to Computer Systems / Programming Languages & Paradigms / Numerical Computing / Computer Graphics / Intro. to Software Engineering / Computer Animation

Mathematics

- Linear Algebra and Geometry / Abstract Algebra / Calculus / Linear Algebra / Probability / Honours Analysis 1 / Statistics / Ordinary Differential Equations / Discrete Mathematics

Technical Skills

Languages [Proficient] Python, Markdown

[Experienced] TypeScript, JavaScript, HTML, Java, UML, \LaTeX

[Familiar] Shell Script, C, C#, CSS, OCaml, C++

Operating System Windows, Linux (Ubuntu), macOS

Tools Vim, Git, Heroku, JetUML, Travis CI, Gradle, Unity, Visual Studio, Visual Studio Code, IntelliJ, Typora

Adobe Photoshop, Adobe Lightroom, MS Word, MS PowerPoint