

# CARSON FISCHL

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- Fourth year computer science student at Carleton University.
- Full stack web developer, focused on MERN.
- Experienced in bioinformatics applications, particularly RNA-seq.
- Bilingual in French and English.
- Canadian/American dual citizen.

## Skills

### LANGUAGES

Java  
HTML  
CSS  
Python  
Javascript  
R

### DATABASES

mySQL  
MongoDB  
SQLAlchemy

### GENERAL

Microsoft Office 365  
Node.js

### OPERATING SYSTEMS

Linux  
Windows

### FRAMEWORKS

Flask  
ReactJS  
Angular 9  
Ionic 4

### VERSION CONTROL

Git  
Github

### LABORATORY TECHNIQUES

HPLC  
PCR  
qPCR  
Proton NMR  
Carbon-13 NMR

## Education

Carleton University Sept. 2015 to Current  
BSc Biochemistry 2020  
BCS Computer Science 2021  
• Member of the Carleton Cyber Security Club

## Employment

Ottawa Hospital Research Institute Ottawa, Ontario  
Bioinformatics Intern May 2020 to Sept. 2020  
• Worked on an extensive system of bulk RNA-seq data for Genome Canada's Genomic Applications Partnership Program (GAPP).  
• Used a high performance CentOS cluster to schedule and test fusion callers using bash, R and SLURM.  
• Assisted in presenting an RNA-seq seminar to academics.

## Projects

Personal Mobile App Nov. 2020 to Current  
• Built and released a native application to display my résumé and personal projects, built with React and Ionic 4.  
• The APK and XCode folders can be found here.  
• Viewable on the Google Play Store (listing can be found here).

Home Web Server Jan. 2020  
• Built and hosted a personal website on a home server using a Raspberry Pi.  
• Server used Flask, Waitress (a WSGI) and Nginx to serve webpages made with Bootstrap 4.  
• Currently using the RPi4 as a pi-hole (DNS sinkhole) in conjunction with an Arduino.

WeatherMe-LTE Jan. 2020  
• Built a mobile weather station with a web application front-end using an Arduino Uno and a Particle Boron.  
• Arduino Uno served as connection point for a thermometer, barometer, and hygrometer.  
• Particle Boron provided LTE connectivity.  
• Data was routed to a Bootstrap web application that graphed the sensory data.

Ouch! Deslouch Feb. 2020  
• Was a team member on a personal health oriented, Java-based computer vision project.  
• Program uses OpenCV and a laptop's webcam to compare the ratio between a user's shoulders and head to determine if they are slouching and encourages them to correct their posture.