

# Kaavya Lakshmanan

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## Skills

### LANGUAGES

Python  
Javascript (ES6,  
Typescript)  
SQL  
Java  
R  
HTML/CSS

### FULL-STACK

React  
Redux  
Node.js  
MongoDB  
Express  
Mongoose

### INFRASTRUCTURE/AWS

Docker  
S3  
EC2  
DynamoDB

### LIBRARIES/Frameworks

d3.js  
PostgreSQL  
jQuery  
matplotlib  
geopandas  
anaconda  
ggplot2  
BigQuery  
MySQL  
SQLServer

### SOFTWARE ENGINEER SKILLS

RESTful APIs  
Web API  
Data Structures  
Algorithms  
Version Repository  
Source Code  
Agile Scrum Team

## Education

University of British Columbia  
Bachelor of Computer Science

Sept. 2017 to May 2021

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Algorithm Design & Analysis, Relational Databases, Operating Systems, Industry Skills

## Employment

Benevity (donation-management platforms) Victoria, BC, Canada  
Software Developer Intern May 2020 to Aug. 2020

- Translated queries from MySQL database to SQLServer database, with different ETL processes, load frequencies, and heterogeneous schemas. The translated query run on SQLServer produces a result as close to the original MySQL query as possible.
- Developing a recommender system to recommend causes and volunteering opportunities to donors, using content-based and collaborative filtering algorithms; will compare effectiveness of algorithms to choose the best algorithm.

Biba Ventures Inc. Vancouver BC, Canada  
Junior Data Scientist May 2019 to Aug. 2019

- Implemented a system using Python to query BigQuery API to generate visualizations of Biba's exercise app usage in the USA and Canada; showcased the correlations between census data and app usage.
- Implemented auto-generation of statistical visualizations of client reports.
- Conducted a data deep dive on environmental factors (e.g., crime, obesity, and climate) that impact app activity and usage, using R.

Thoughtexchange Vancouver BC, Canada  
Software/Research Engineer Jan. 2019 to May 2019

- Implemented a word-cloud feature using Typescript, d3.js, jQuery, and Node.js, which identifies the most important words and stores them in the form of tags, sized according to a number of metrics.
- Researched and tested several packing algorithms to find the optimal solution for displaying the words on the screen.
- Wrote a Python script that found the 'most provocative' thought in a given dataset by finding the thought with the greatest 'dwell time'.

## Projects

Televet May 2020 to Aug. 2020

- Televet is a tele-health MERN full-stack web-app that connects pet owners to vets. A user logs in as either a pet owner or vet and is directed to a customized dashboard, where they can book a new appointment, message their vet, tele-conference in realtime, and view the vets closest to them by location.
- Technologies: MERN stack, Google Maps API, Auth0, Javascript ES6

Work Smart July 2020 to Aug. 2020

- Work Smart is a MERN stack todo web app which helps optimize productivity in a gamified way. A user logs in, creates todos, and assigns points for each todo. If they receive a min number of points during a week (set by user) by completing todos, they are awarded prizes.
- Technologies: MERN stack, Auth0, Javascript ES6

Music Diversifier May 2020 to Current

- Building a recommender system that allows a Spotify user to diversify their musical tastes. I am using Spotify's Web API to access users' music library and the audio analysis of the artists they listen to.
- Technologies: Javascript ES6, Spotify API, CSS, HTML