Lihui Yang

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EDUCATION

University of Victoria — Victoria, BC, Canada
Bachelor of Science, Psychology and Computer Science Combined Major — *May. 2018 – May 2022*

Douglas College — New Westminster, BC, Canada
University Transfer Program — *May. 2016 – May 2018*

WORK EXPERIENCE

Research Assistant - Internship — January 2021 – May 2021
Universidad Católica del Maule — *Remote*

- Responsible for preparing gene sample data from NCBI database
- Tested the effectiveness of CRISPR-Cas System in microorganisms
- Implemented data visualization and compared accuracy of different analysis tools
- Worked closely with Professor to have proper research resources available for projects

PERSONAL PROJECTS

Food-Finding Application | *Node.js, Express, MongoDB, EJS* | https://foodfinding.herokuapp.com

- Fully-functional Node.js Web App for sharing dining experience and recommended dishes
- Formed Express as a server-side framework to construct RESTful routing
- Established a login system with user Authentication by Passport.js
- Provided back-end database operations using Mongoose.js with MongoDB

Weather Forecast Application | *HTML, CSS, JavaScript, Node.js* | https://lihui-weather-app.herokuapp.com

- Simple web App to display current weather by entering a city name
- Created an autocomplete location search box using Google Places API
- Used longitude and latitude to pull the information from OpenWeatherMap API
- Connected with APIs using fetch for the Front-End and Axios for the Back-End

Bookstore Database Application | *Python, SQLite* | https://github.com/lihui-yang/Bookstore-management

- Database App for storing book's title, author, year, and ISBN number
- Developed a simple GUI using Tkinter library
- Supported operations: Insert, View, Search, Delete, and Update

RESEARCH PROJECT

Singing Voice Separation with different Machine Learning Models — Sep.2020 – Dec 2020

The project emphasized some machine learning approaches and evaluated their effectiveness and performance. The machine learning models considered in this study are Recurrent Neural Networks (RNN), Convolutional Neural Networks (CNNs), and Gaussian Mixture Model (GMM).

- Reviewed previous studies and summarized the results
- Responsible for training data and testing data in Team GMM
- Participated in design pipeline and approach data visualization