

Sunny Deng

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EDUCATION

University of Victoria

M.Eng. Applied Data Science GPA: 8.33/9

Jan. 2021 – Present

Victoria, BC

Wilfrid Laurier University

BA. Mathematics, Concentration in Statistics and Data Analytics

Sept. 2016 – Aug. 2020

Waterloo, ON

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Frameworks: Flask, Django, Bootstrap, React

Database : MySQL, DynamoDB, PostgreSQL

Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ

EXPERIENCE

Undergraduate Research Assistant

Wilfrid Laurier University

Sept. 2019 – April. 2020

Waterloo, ON

- Analyzed the pattern of weather dataset in R to predict future extreme weather events.
- Preprocessed the data and trained LDA, QDA, Random Forest models.
- Evaluated the model and reached approximately 85 percentage accuracy.

PROJECTS

Face Mask Covering Detection | Python, Object Detection, Keras

May. 2021 – Aug. 2021

- Developed a detection tool for face mask covering.
- Trained Convolutional Neural Network with Keras.
- Utilized YoloV4 and Faster RCNN for mask detection.

React TODO List | Javascript, React, HTML, CSS

Feb. 2021 – Apr. 2021

- Developed TODO list that can select priority.
- Used Bootstrap CSS for rendered app.
- Realized add, remove TODO features.

Mini Twitter App | Python, Django, Bootstrap, PostgreSQL, Docker

Nov. 2020 – Dec. 2020

- Built responsive front-end UI using HTML/CSS Flexbox and Bootstrap
- Wrote RESTful APIs in Django, enabled CORS for the web frontend to access the endpoints.
- Seted up a Postgres SQL database and used a Django ORM library for database operations
- Hosted the site on a Linux server on Digital Ocean, devoped using nginx and ansible

Restaurant Booking App | Flutter, Flask, RESTful API, NoSQL, DynamoDB, Git

July. 2020 – Oct. 2020

- Built a web app in Flutter allows user browsing nearby restaurants and create bookings.
- Wrote RESTful APIs in Flask, enabled CORS for the web frontend to access the endpoints.
- Setup NoSQL database using DynamoDB and used Pynamodb as Python ORM for database operations.
- Used Docker and Docker-compose to crate portable containers for both the Flask app and Redis.

Web Scraping Job Postings from Indeed | Python, BeautifulSoup, Scikit-Learn

May. 2020 – Aug. 2020

- Developed a tool to scrape job postings from Indeed.
- Pulled 5,000 postings for jobs per location.
- Analyzed and predicted salaries based on scraped job descriptions.