# VINCENT YAN

COMPUTER ENGINEERING STUDENT

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## KEY SKILLS

| *PROGRAMMING LANGUAGES* | *TOOLS/FRAMEWORKS* | *ANALYSIS* |
|---|---|---|
| • Java • Python • C • C++ • Verilog | • Django • Flask • Docker • REST APIs • | • Statistical Analysis/Correlation |
| • ARM • X86-64 • HTML/CSS | • SQL/mongoDB • Raspberry Pi • ReactJs | • Data Visualization |
| • Kotlin • CircuitPython | • Version Control • Debugging • Postman | • Technical Writing |

## TECHNICAL PROJECTS

**FEEDMI – FOOD RECOMMENDATION WEB APPLICATION -** (Personal Project) **February 2019 - Current**

(Python, ReactJs, MongoDB, Google-API, Flask, HTML/CSS, Pandas)

- Developed a web application that displays restaurant and recipe information based on food recommendation
- Implemented a recommendation system based on user preferences and attributes
- Created functions to manage and update the database to improve the quality and accuracy of recommendations

**HOW BUSY?** - https://busyrightnow.herokuapp.com/ **-** (Personal Project) **April 2020 – Current**

(Django, Heroku-App, Google-API, Beautiful Soup, HTML/CSS)

- Developed a web application to report store traffic information through geolocation and live-user reporting
- Parsed Google-Places API data with external libraries to obtain key information
- Used Django platform and HTML/CSS to incorporate methods and displaying data on site

**BIPEDAL SINGING AND DANCING ROBOT -** (UBC) **March 2020 – April 2020**

(Adafruit, CircuitPython, Multi-Servo Movement Programming, Bluetooth Controller)

- Developed a robot to simulate a variety of dance moves synced to music
- Outfitted and programmed robot with Bluetooth so it could be controlled wirelessly by phone application
- Implemented pseudo threads in CircuitPython to simulate simultaneous movement and buzzer functionality

## WORK EXPERIENCE

**APP DEVELOPER INTERN – FCOM SERVICES**

**July 2020 – Present**
**Vancouver, Canada**

- Assist in the development of IoT devices and web-based applications
- Working on internal tools to help with development
- Develop a mobile application to help interfacing with sensors and devices

**ANALYTICAL CHEMIST – STEMCELL TECHNOLOGIES**

**November 2018 – August 2019**
**Vancouver, Canada**

- Developed an optical assay for the characterization of nano-particle aggregates
- Implemented JavaScript macros for automating data processing and for image analysis
- Performed sensitive particle characterization assays to obtain reliable consistent data for product stability monitoring
- Operated Chemistry lab instruments and generated methods and calibrations for analysis of different products

## EDUCATION

**UNIVERSITY OF BRITISH COLUMBIA – *3rd Year Computer Engineering*** **May 2022**

**UNIVERSITY OF BRITISH COLUMBIA – *Bachelor of Science: Chemistry*** **May 2018**

- Dean's Honour List Winter 2018
- DOTA 2 director of UBC-Esports Association