VINCENT YAN

COMPUTER ENGINEERING STUDENT

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KEY SKILLS

PROGRAMMING LANGUAGES

• Java • Python • C • C++ • Verilog
• ARM • X86-64 • HTML/CSS
• CircuitPython

TOOLS/FRAMEWORKS

• Django • Flask • Web APIs
• MongoDB • Raspberry Pi • ReactJs
• Version Control • Program Debugging

ANALYSIS

• Statistical Analysis/Correlation
• Data Visualization
• 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

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

TEACHING ASSISTANT – UNIVERSITY OF BRITISH COLUMBIA **September 2017 – December 2019**
Vancouver, Canada

- Conducted lectures in weekly tutorials and labs
- Provided constructive feedback to students to stimulate learning and understanding of course and lab material
- Promoted peer-to-peer communication in problem solving

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA – *2nd Year Computer Engineering* **May 2023**

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

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