VINCENT YAN

COMPUTER ENGINEERING STUDENT

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KEY SKILLS

PROGRAMMING LANGUAGES

Java • Python • C • Verilog • ARM • X86-64 • CircuitPython

TOOLS/FRAMEWORKS

Version control • program debugging • web APIs • Raspberry Pi • MongoDB • Flask • ReactJs • HTML/CSS

ANALYSIS

Statistical analysis/correlation • data visualization • technical writing

TECHNICAL PROJECTS

FEEDMI – FOOD RECOMMENDATION APPLICATION - (PERSONAL PROJECT)

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

- Used Google search and maps API to make searches for keywords to obtain restaurant and recipe information
- 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

BIPEDAL SINGING AND DANCING ROBOT - (UBC)

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

- Integrating multiple servos to simulate a variety of dance moves synced to music
- Outfitted and programmed robot with Bluetooth so it can be controlled wirelessly by phone application
- Implemented pseudo threads in circuit python to simulate simultaneous movement and buzzer functionality

TEMPERATURE AND LUMINESCENCE SENSOR GAME - (UBC)

(Raspberry Pi 4, GUI, Temperature and Luminescence Sensors)

- Tkinter GUI to show graphical real time temperature and luminescence data off Raspberry Pi sensors
- Created a functioning game within GUI with leaderboard, levels, and stages to challenge
- Wired, calibrated, and programmed sensors to work properly, safely, and within their specifications

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

- Lecturer 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

Expected May, 2023

UNIVERSITY OF BRITISH COLUMBIA – Bachelor of Science: Chemistry

May, 2018

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