VINCENT YAN

COMPUTER ENGINEERING STUDENT

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KEY SKILLS

PROGRAMMING LANGUAGES	*TOOLS/FRAMEWORKS*	*ANALYSIS*
Java • Python • C • Verilog • ARM • X86-64 • CircuitPython	Django • Version control • Program debugging • Web APIs • Raspberry Pi • MongoDB • Flask • ReactJs • HTML/CSS	• 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

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

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

- Takes postal/zip code to obtain nearby stores ordered by distance and reports busyness based on day and time
- Parsing Google-API data with external libraries to collect information not found traditionally in Google API
- Using Django platform to incorporate python methods and displaying information on a site with HTML/CSS

BIPEDAL SINGING AND DANCING ROBOT - (UBC Team Coursework)

(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

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