

# VINCENT YAN

COMPUTER ENGINEERING STUDENT

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## WORK EXPERIENCE

### JUNIOR SOFTWARE DEVELOPER – DELTA CONTROLS

January 2021 – Present  
Surrey, Canada

- Develop alarm module dashboard components and features
- Parse, collect, and organize sensor log data to dynamically display to customers

### APP DEVELOPER – FCOM SERVICES

July 2020 – Present  
Vancouver, Canada

- Developed mobile and web applications to address mental and physical health issues in Canada and in Japan
- Designed, created, and improved applications based on user feedback and responses from customers
- Contributed to stand-up meetings and code review in a Scrum/Agile development environment

### ANALYTICAL CHEMIST – STEMCELL TECHNOLOGIES

November 2018 – August 2019  
Vancouver, Canada

- Developed analytical assays for the characterization of nanoparticles for stem cell research
- Automated data processing and image analysis to accelerate data throughput
- Monitored the stability and synthesis of particles to meet design and performance criteria

## TECHNICAL PROJECTS

### PARTNERME – (Personal/Group Project)

September 2020 – Current

(MongoDB, Express, Android Studio, NodeJS, AWS)

- Designed and develop an android application connects students with their most suitable study buddies.
- Implemented and deployed backend server on AWS to handle front-end RESTFUL API requests.
- Lead development by scheduling meetings, updates, and delegating tasks for team members.

### MEDIA TEXTSCRIBE – (Hackathon, Personal Project)

October 2020 – Current

(NodeJS, Express, Microsoft Azure, PUG/CSS, JavaScript)

- Developed a web application that uses Azure's image parsing API to convert images to descriptive text for screen readers
- Designed and implemented front-end modules to handle requests and displaying results
- Winner of Microsoft's "Best use of Azure for Social Good" award

### HOW BUSY? - <https://busyrightnow.herokuapp.com/> - (Personal Project)

April 2020 – July 2020

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

- Developed a web application to help users see store traffic to avoid line-ups during Covid-19
- Parsed Google-Places API data with external libraries to obtain key information
- Deployed and managed the application performance and data on Heroku

### FEEDMI – FOOD RECOMMENDATION WEB APPLICATION - (Personal Project)

February 2019 – June 2020

(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

## BIPEDAL SINGING AND DANCING ROBOT - (UBC)

March 2020 – April 2020

(Raspberry Pi, 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

## KEY SKILLS

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### PROGRAMMING

- Java • Python • C • C++ • Verilog • ARM • X86-64
- PUG/HTML/CSS • Kotlin • CircuitPython
- Windows/Linux

### TOOLS/FRAMEWORKS

- Django • Flask • Docker • RESTful APIs • PostgreSQL/MongoDB
- Angular • ReactJs • Version Control • Debugging • Postman • AWS
- Azure • NodeJS

## EDUCATION

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UNIVERSITY OF BRITISH COLUMBIA – *3<sup>rd</sup> 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