

# VINCENT YAN

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## WORK EXPERIENCE

### JUNIOR SOFTWARE DEVELOPER – DELTA CONTROLS

January 2021 – Present  
Surrey, Canada

- Led the full-stack development of an alarms management system for building alarm management using JavaScript, Zend Framework, HTML/CSS, and REST APIs.
- Developed and implemented an alarm log pipeline from active controllers to backend servers to perform data analysis.
- Hosted, developed, and maintained backend server functionality for multiple products using pgAdmin4, test scripts, and FlaskAPI.
- Presented developed products and methods to stakeholders (executives, technical teams, and customers).
- Researched and implemented light-weight object detection inference on proprietary hardware for people counting.
- Developed an interactive navigation module and methods to visualize BRICK schema building relationships.
- Collaborated with technical teams and managers to discuss and implement new features.
- Created extensive documentation on Confluence for technical teams and management to see progress and development considerations.

### APP DEVELOPER – FCOM SERVICES

July 2020 – December 2020  
Vancouver, Canada

- Created an image-analysis android application using Android Studio and MongoDB.
- Developed, tested, and implemented features for a web application using Angular, PostgreSQL, and FlaskAPI.
- Collaborated in a Scrum/Agile development environment by working on code reviews and contributing to meetings.
- Presented developed products and methods to executives.

### 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

### DISCORD RPG – <https://discordrpg.vincentyan.repl.co/> - (Personal Project)

April 2021 – Current

(MongoDB, Replit, Discord Bot API, Uptime Robot, Game Development)

- Designed and created a fully playable role-playing game in Discord.
- Developed combat, inventory, skills, enemy interactions, unique character classes, and continuing to add on more.
- Saved and managed players and character data through MongoDB Compass.
- Hosted the bot service on Replit and used Uptime Robot to monitor and track bot uptime and status.

### 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 – December 2020

(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, BeautifulSoup, 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

### 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

### UNIVERSITY OF BRITISH COLUMBIA – 4<sup>th</sup> Year Computer Engineering

May 2023

### UNIVERSITY OF BRITISH COLUMBIA – Bachelor of Science: Chemistry

May 2018

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