

# Philippe Vo

## Computer Engineer

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### SKILLS

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#### Programming Languages

Master



Python

C++

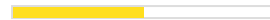
Java

C#

GDScript

#### CD/CI

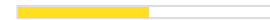
Intermediate



Jenkins

#### Database

Intermediate



PostgreSQL

### WORK EXPERIENCE (2)

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Aug 2018 - Current

**Head of Software** at DropGenie

📍 Boston, MA 🔗 <https://www.drop-genie.com/>

Biotech instruments company that built a system that can perform low volume, high throughput gene editing experiments at scale

- a backend system to control a hardware system to enable fluidics movements based on electricity
- a frontend GUI application to enable users to interface with the hardware system (using APIs to talk to the backend system)
- a database system to store data regarding the execution of runs of the hardware systems for quality control
- a pipeline system that enables users to compile their code into a binary file that can be understood by the hardware system for fluidics movements
- firmware that runs on the hardware system to control the electrical hardware
- built numerous in-house applications to accelerate and facilitate my colleague's work
- managed a team of data scientist to build a predictive model to label biological run as success/failure

Sep 2016 - Sep 2017

**Research Assistant** at Concordia University

📍 Montreal, QC 🔗 <https://www.shihmicrolab.ca/>

Worked in a research laboratory specialized in Digital Microfluidics (liquid handling technology)

- Built a feedback system for fluidics movement using computer vision
- Created three software systems, a GUI (Graphical User Interface) to control a Digital Microfluidics automation system, an automatic absorbance reader (AIMS) and an image-based feedback system for Digital Microfluidics.
- Published my research project on my image-based feedback system in the "Lab on a Chip" journal.
- Collaborated with other lab members coming from other fields such as Biology, Electrical and Material Engineering.

### EDUCATION (1)

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2017 - 2021

**Bachelor Computer Engineering** at Concordia University

### AWARDS

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2017

**Employers' Choice Award** at Co-op Institute at Concordia University

Co-op awards committee reviewed all nominations from their employer contacts and I was the recipient for this award in 2017. Nominated by my employer Steve Shih from Concordia University

2017

**USRA Scholarship** at Natural Sciences and Engineering Research Council of Canada

Undergraduate Student Research Award is given by the Natural Sciences and Engineering Research Council of Canada based on candidates academic record and research aptitudes

2021

**Merit Scholarship Program in Information Sciences, Computer Engineering and Construction of Computers, and Electrical, Electronic and Communications Engineering** at Government of Quebec

2016

**Concordia Entrance Scholarship** at Concordia University

A scholarship given to entering students at Concordia University which have been able to distinguish themselves academically

## PUBLICATIONS

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1 Oct 2017

**Image-based feedback and analysis system for digital microfluidics** in Lab on a Chip

Innovative computer vision-based feedback system to optimize fluid movement on digital microfluidic chips.

## LANGUAGES

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### English

*Native speaker*



### French

*Native speaker*



### Vietnamese

*Upper Intermediate*

