

# Qi Dang

Phone: (250) 891-2068

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LinkedIn: <https://www.linkedin.com/in/qi-dang/>

GitHub: <https://github.com/QI-D?tab=repositories>

## Profile

Passionate about software development. My entrepreneurial background has taught me strong interpersonal, and problem-solving skill, and persistence. BCIT CIT program has given me broad technology skill set including software & web development, cloud computing, database design/management, Windows & Linux system administration, and networking. My skill set was enhanced during my 16-months Co-op experience.

## Technical Skills

Programming	Web	Frameworks	Cloud	Database	Tools
<ul style="list-style-type: none"><li>• Python</li><li>• Java</li></ul>	<ul style="list-style-type: none"><li>• JavaScript</li><li>• HTML</li><li>• CSS</li><li>• NodeJS</li><li>• ExpressJS</li></ul>	<ul style="list-style-type: none"><li>• Flask</li><li>• Bootstrap</li><li>• Unittest</li><li>• Django</li><li>• ReactJS</li></ul>	<ul style="list-style-type: none"><li>• AWS</li><li>• GCP</li><li>• Azure</li></ul>	<ul style="list-style-type: none"><li>• MySQL</li><li>• PostgreSQL</li><li>• Firebase</li><li>• MongoDB</li></ul>	<ul style="list-style-type: none"><li>• Git</li><li>• Jira</li><li>• TeamCity</li><li>• Linux/UNIX</li><li>• Postman</li><li>• Terraform</li><li>• Docker</li><li>• Ansible</li></ul>

## Work Experience

### Associate Software Developer Co-op

September 2021 – August 2022

HP Teradici

- Developed and maintained Terraform, Bash, PowerShell, and Python cloud deployment scripts for AWS and GCP
- Utilized public clouds Google Cloud Platform and Amazon Web Services
- Integrated cloud logging and monitoring services to improve efficiency for troubleshooting and scaling on AWS and GCP
- Analyzed and resolved issues independently and with peers
- Provided support to other staff using the cloud deployment scripts

### Junior Systems Engineer & Back End Developer Co-op

May 2021 – August 2021

Intellyon Inc.

- Developed and maintained cloud infrastructure on AWS, improved server availability and secured with customized firewall
- Developed REST APIs and ensured the requirements were met
- Collaborated with other peers on the improvement of software performance and performed error analysis
- Streamlined and automated code deployment process using bash scripts

### Owner/ Store Manager

April 2018 – April 2020

Tomley's Market

- Responded to customers' inquiries, complaints, and requirements in timely and professional manner
- Originated weekly planning including employee schedule, delivery schedule, stock management
- Monitored sales and revenue to ensure reaching the target each month and even surpassing it

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- Hired new employees, instructed them in work safety standards and introduced them in the collective
- Placed orders and kept in contact with suppliers to ensure a great collaboration

## Education

### British Columbia Institute of Technology, Vancouver, BC

Winter 2020 - Present

- Computer Information Technology - GPA: 88%

Expected Graduation: Dec 2022

### Camosun College, Victoria, BC

Jan 2018 – April 2018

- Associate of Science Degree

### University of Victoria, Victoria, BC

Sept 2016 – Dec 2017

- Computer Science

## Personal Project

### Snake Game

Duration: 3 days

- Developed a snake game which player has control over the snake to collect apple; then the scores are uploaded to a web leaderboard
- Developed the game using Python, Pygame, MySQL, and Flask
- Developed difficult levels to adjust speed of snake and score per apple

## Academic Projects

### Inventory Management System

*Service Based Architectures*

September 2022 – December 2022 (In progress)

- Developing an inventory management system in event-driven microservice architecture
- Developing the system using Python, MySQL, Kafka, Docker, SwaggerHub, and OpenAPI
- The system will be deployed on Microsoft Azure

### Scheduler

*Industry Sponsored Student Projects - This project is on trial in the NICU at BC Women's Hospital*

January 2021 – April 2021

- Expanded and improved a web-based application provides better schedule functions based on nurse's discipline, patient needs, and consistency of shift assignments
- The application was developed using Python, Flask, Jinja, jQuery, Bootstrap, and MySQL
- Developed on algorithms to make more accurate assignments
- Implemented filtered dropdown lists to anticipate conflicts in assignments
- Applied Agile methodology and built relationship with team members and clients

### Maze Game

*Object-oriented Programming*

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October 2020 – November 2020

- Developed a maze game that player has control over the character to explore the maze and collect items within duration; then the results are uploaded to a web leaderboard
- Developed the game using Python language, Pygame module and Model-view-controller pattern
- Developed and debugged the game with Test-driven Development process using pytest
- Applied Agile methodology and built relationship with team members
- Collaborated with team members on GitHub such as creating, pulling, pushing, and merging branches and resolved merge conflicts

## Social Reminder

*Developing Web Applications*

October 2020 – November 2020

- Developed a reminder app that enables user account creations, reminder creation, reminder modification and deletion. It also allows user to share reminders with friends.
- Developed the app using JavaScript language, NodeJS, ExpressJS, EJS, Bootstrap and MongoDB
- Established cookie session which stores credentials to maintain an active session for users
- Collaborated with three team members using Agile methodology and manage repository on GitHub