

# Weijie Zeng

7277 Camarillo Place  
Burnaby, BC V5A 4G3

778-522-0441  
waynezeng1210@gmail.com - [Linkedin](#)

## HIGHLIGHTS

- Recipient of the 2019 Fall Term Scholarship at SFU.
- Proficiency with various coding languages: C/C++, Java, Python, Assembly Code.
- Extensive experience in developing intelligent systems, operating systems, websites.
- Strong team player with excellent interpersonal and time-management skills.
- Enthusiastic about acquiring new skills and taking on professional challenges.
- Familiarity with Microsoft Office suite, including Excel, Word, Power Point, OneDrive.
- Excellent verbal and written communication skills in English, Mandarin and Cantonese.
- BC class 5 driver license and own vehicle.

## KEY SKILLS

Languages	Software	Systems	Others
<ul style="list-style-type: none"><li>• C/C++/Java/Python</li><li>• Assembly Code</li><li>• VHDL</li><li>• SQL</li><li>• JavaScript (React.js)</li></ul>	<ul style="list-style-type: none"><li>• MATLAB</li><li>• AutoCAD</li><li>• Microsoft Office</li><li>• Postman</li></ul>	<ul style="list-style-type: none"><li>• Windows</li><li>• Linux Ubuntu</li></ul>	<ul style="list-style-type: none"><li>• Multilingualism</li><li>• Leadership &amp; Teamwork</li></ul>

## EDUCATION

**May 2018 – February, 2023**

**Computer Science, BSc**

*Simon Fraser University, Burnaby, BC*

- Core courses: Operating Systems, Artificial Intelligent, Database Systems, Algorithm, Networking, Computer Graphic/Vision, Data Structures, Web Systems Architecture, User Interface Design
- Academic Scholarship at SFU (2019 Fall Term).

## PROJECTS

**June, 2023**

**User Information Management System - [GitHub](#)**

**Front-end development**

React, Antd, Node.js, Individual project

- Designed a website for login authentication, user addition/removal, and user information modification.
- Utilized Ant Design (Antd) and React for implementing the components.
- Utilized Node.js with Express to create a mock server.

**May, 2022**

**Files Collection System- [GitHub](#)**

**Database Systems**

Java, JDBC, Group project

- Developed a website that creates a database allowing users to create an account, and upload or download files.
- Contribution: There are four layers in the project, including service, model, controllers, and I create and manage database by utilizing JDBC.

**May, 2022**

**Multi-Agent Path Finding (MAPF) - [GitLab](#)**

**Intelligent Systems**

Python, Individual project

- Implemented a program to find collision-free paths for robots to reach their goal cells.
- Utilized A\* search to find a shortest path that satisfies a given constraints, and then use CBS to generate a new constraint set until the robots reach their goal cells.

**July, 2021**

**Simple-talk - [GitHub](#)**

**C++ Development**

Operating Systems, C++, Group project

- Create an Inter-Process Communication program enabling message exchange between terminals.
- Developed threads such as reader, sender, receiver, and printer, sharing the same memory using a list ADT.
- Contribution: Create the list ADT, and implement the receiver and printer functionalities.

**March, 2020**

**Graduate Student Admission System - [GitHub](#)**

**C++ Development**

Software Design, C++, Group project

- Designed a system to efficiently select applicants who meet specific criteria.
- Students are first sorted by their CGPA, names and/or any other tags. Then the program will filter the results based on user input criteria.

**April, 2022**

**x86-64 Assembly Code**

**C/Assembly Code**

Computer Systems, Individual project

- Implemented a program using Assembly Code with functions for addition, subtraction, multiplication, and rotating matrices 90 degrees clockwise.

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**EXPERIENCE**

**2023 – Present**

**High-school Tutor**

- Worked as a part-time tutor responsible for teaching Calculus and Physics to Grade 12 students.
- Developed strong communication skills when explaining math and physics concepts to students.