

CHUN LI

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<https://github.com/chun-li9>

Languages

English, French (beginner), Chinese

Education

**Bachelor of Software Engineering
Minor in Applied Artificial Intelligence** Fall 2020-present
McGill University, Montreal, QC
Expected graduation date: December 2024

Honours Health Science Program Fall 2018-2020
Marianopolis, Montreal, QC
Honours Roll and The Dean's List

Skills

Programming Languages: Java, C, Python, HTML, CSS, JavaScript, Bash
Technologies: Git, Agile, SQL, Linux, Kubernetes, Docker, Prometheus, Grafana, Vue.js, RESTful API, UML, Umple, Gradle, Spring Boot, Cucumber

Work Experience

Software Designer Intern

May - August 2022

Exfo Inc., Montreal, QC

Technologies used: Python, Docker, Kubernetes, GitLab, Prometheus, Grafana, Rust, Agile

- Using the Kubernetes Python client interface, designed and built a Python application that automatically deploys network tests to Kubernetes and monitors the status of the tests until completion.
- Achieved automation of collecting resource usage (memory, CPU, network) from the running tests using Prometheus, and achieved real-time visualization of the resource usage using Grafana.
- Implemented a simple Rust application that generates the required configurations in a standard format.
- Integrated the Python application into the CI/CD pipeline of an existing product of the company.

Projects

Simple Operating System (academic project)

September - December 2022

Tech stack: C, multi-processing, multi-threading

- Part 1: Using multi-processing, built an operating system shell that allows built-in commands and external commands to be executed and can perform output redirection and command piping.
- Part 2: Built a user-level thread scheduler that follows the First-Come-First-Serve principle using multi-threading.
- Part 3: Implemented a file system that can perform file operations such as write/read, open/close and create/remove files based on a disk emulator library.

Co-Vivre – McHacks 9 (Hackathon)

January 2022

Tech stack: Java, Spring Boot, maven, HTML, CSS, JavaScript, GitHub

- In a team of three, built a web application that crawls information related to covid-19 from different sources for people in Montreal to access them more quickly and conveniently. Montrealers can also report positive on the website if they test positive using the rapid test kit.
- Responsible for the frontend design and implementation.

Personal Website (personal project) <http://chunli9.com/>

January 2022

Tech stack: HTML, CSS, JavaScript

Library System WebApp (academic project)

September - December 2021

Tech stack: RESTful API, Java, HTML, CSS, JavaScript, Vue.js, Gradle, Spring Boot, PostgreSQL, GitHub

- In a team of five, built a web application for a library system, allowing users to reserve library items, librarians to manage library items, a head librarian to manage the library, and so on.
- Implemented the backend in Java on the Spring Boot framework practicing Test-Driven Development and connected it to a PostgreSQL database through RESTful API. The frontend website was implemented on the Vue.js framework.
- Contributed actively to the development, learnt new technologies rapidly, and was responsible for implementing the MVC layers and the corresponding unit tests for some entities, as well as performing integration tests for the entire application.