

# Christine Pan

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## Education

### McGill University (Computer Science & Minor in Music Technology)

Expected Graduation: April 2024

*McGill University*

Relevant coursework: Data Structures, Algorithms, Web Development, Machine Learning, Programming Challenges, Artificial Intelligence, Operating Systems

### Specialized Graduate Diploma Music Interpretation (Piano)

2021-2024

*Conservatoire de musique de Montréal*

### Undergraduate Diploma (Piano)

2018-2021

*Conservatoire de musique de Montréal*

## Work Experience

### Autodesk, Montreal (hybrid)

May 2023 – August 2023

*Software Developer Intern*

- Created and improved unit tests and many bug fixes to maintain app's reliability
- Instrumented button clicks within the app to Amplitude for quantitative feedback
- Implemented small features such as a preference menu with user's information
- Acknowledged for the great number of contributions and for open and positive approach to tasks, recognized for delivering fixes seamlessly and was offered a return internship.
- Typescript, React.js, Docker, Storybook, Yarn, Jenkins, GitHub, Agile Methodology.

### Gallea, Montreal (hybrid)

May 2021 – August 2021

*Front-End Developer Intern*

- Created new/fix old web pages and landing pages according to graphic designer.
- Added new resources for team members through Nova.
- Acknowledged for fast adaptation to work flow, quick familiarization to the project code and repositories, and was offered a return internship.
- HTML, CSS, Tailwind, Vue.js, Laravel, SQL.

## Projects

### Student Planner Website (HTML, CSS, JavaScript, SQL, PHP)

- Created landing, login, sign up and setting pages.
- Implemented planner page with calendar with form to add and remove tasks.
- Implemented a focus page with a timer for study time and a timer for break time.

### Simple Sudoku Solver (Java)

- Used backtracking algorithm, build solutions step by step using recursion.
- Optimized code for harder sudoku to improve running time.
- Implemented different algorithm for different sudoku rules (queen rule, knight rule and king rule).

### Encoding and Decoding with Solitaire Cards (Java)

- Implemented doubly linked list data structure for card representation.
- Created functions for Solitaire encryption and cipher such as generating keystream, encoding and decoding messages.
- Implemented other basic functions like shuffle cards, add cards, remove cards, locate cards, etc.

## Computer Skills

Python, Java, C, Unix, OCaml, R, HTML, CSS, React.js, Typescript, Javascript, PHP, SQL  
MatLab, MAX/MSP, Arduino, Logicism  
Machine Learning, Data Structure and Algorithms, AI

## Achievements

- Excellence Bursary for Computer Science, Computer Engineering and Computer Construction, and Electrical, Electronic and Communications Engineering, 2021.
- Alice Ste-Marie de la Succession Marcel Vigeant (Conservatoire de musique de Montréal) Scholarship, 2020.
- Gilles Gauthier (Conservatoire de musique de Montréal) Scholarship, 2019.

- Dean's List in Pure and Applied Science (Average above 90%), Champlain College, 2020.
- Canada Music Competition, Grand Prize, 2017.
- Canadian Federation of Music Teachers' Association (CFMTA) Prize, 2017.
- Part of the "30 hot Canadian classical musicians under 30, 2017 edition" list, published by CBC. [30 hot Canadian classical musicians under 30, 2017 edition | CBC Music Read.](#)

## Volunteer Work

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<b>Benefit Event of CMM, Maison Symphonique Place-des-arts</b> Soloist with OSCMM	2023
<b>Benefit Concert, Conservatoire de musique de Montréal</b> Pianist	2022
<b>Champlain College Saint-Lambert</b> English Tutor for college students	2019-2020
<b>Groupe résidence Maurice, Montreal</b> Pianist and Entertainer for the elderly residents of the residential care facility	2015-2018
<b>Brossard Library Georgette-Lepage</b> Homework Helper for kids	2015-2016

## Languages

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**French, English, Mandarin**