

# Liang Zhang

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## SKILLS

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<b>Programming</b>	Java   Javascript   Python   C++   C#   C
<b>Web &amp; Database</b>	HTML   CSS   NodeJS   SQL   Spring Boot   ReactJS
<b>Tech</b>	Git & GitHub   Unix   VSCode   MSExcel   Salesforce
<b>Language</b>	English   Mandarin   Cantonese   Japanese

## EDUCATION

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**Bachelor of Computer Science**, University of Minnesota-Twin Cities (2018 Fall-2022 May)

## PROJECTS

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**Discord Music Bot ( [GitHub](#) ) – Full-Stack – Agile Development** Dec 2021-Jan 2022

Technologies and Skills Utilized: Java, Gradle, Spring Boot, and several discord bot dependencies

- Created a discord bot that joins a discord channel, plays music, adds music to the playlist, and leaves the discord channel using commands in the discord chat.
- Mainly handled bot connection to the Discord server, music playback, and command functions.

**Auto Rescue Drone ( [GitHub](#) ) – Full-Stack – Agile Development** Nov 2021-Dec 2021

Technologies and Skills Utilized: C++, Javascript, and other search algorithms

- The drone performs DFS, BFS search on the noded graph UMN campus map, then uses the Canny Edge filter to outline the object that needs to be rescued.

**Image Filters ( [GitHub](#) ) – Full-Stack – Agile Development** Oct 2021-Nov 2021

Technologies and Skills Utilized: C++

- Implemented threshold, gaussian blur, hysteresis, mean blur, pixelate, and canny edge filters.

**Sudoku Auto Solver ( [GitHub](#) ) – Full-Stack – Agile Development** Jul 2021- Aug 2021

Technologies and Skills Utilized: Python, Pygame, and backtracking algorithm.

- Created an AI bot that can generate the solution base on the Sudoku puzzle.
- Used Pygame library to create the game & user interface.

## WORK EXPERIENCE

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**MnTAP Web & Data Management Assistant** May 2021-Sep 2021

- Update and manage clients information using Salesforce & WordPress.
- Helped code the Pneumatic to Electric Tool Cost Calculator for MnTAP.