

Min Kang

Github: github.com/MuteMini

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SKILLS

Languages: Python, C/C++, Javascript, Typescript, HTML/CSS, Java, Rust.

Tools: Git, React, Node.js, Yarn, Flask, Tensorflow, Visual Studio, Eclipse, Microsoft Office

PROJECTS

ClearBook Tool

<https://github.com/MuteMini/Book-Translate-Tool>

- Developed a **OpenCV** algorithm to automatically crop a book page from a photo.
- Implemented **99% accurate** text detection and removal using **Tensorflow**.
- Built a **pyQT** desktop app that can process, readjust and merge photos into a PDF.

Auricular.ai

<https://devpost.com/software/auricular-ai>

- Developed a **Python** app that summarized lectures using **Facebook's sentiment analysis AI**.
- Built an asynchronous back-end that processed files using a **speech-to-text API** and **Google Cloud**.
- Awarded 2nd place in Hack the North 2020++'s Facebook API Category.

Handpong

<https://devpost.com/software/handpong>

- Designed an online, multiplayer parody pong web game using **Node.js** and **Socket.io**.
- Added hand gesture control using **React** libraries and **Tensorflow** to track hand position.

Sokoswitch

<https://github.com/MuteMini/Sokoswitch>

- Developed a **Java** and **LibGDX** based sokoban puzzler where blocks stick to each other.
- Implemented a flexible level creation system using **polymorphism** and programming patterns.
- Utilized dynamic asset loading and **JSON file parsing** to create a fast performing executable.

Microcontroller Design Project

https://github.com/MuteMini/project_irrigation

- Developed a moisture sensor using the **STM32 micro controller** to control circuit components.
- Organized project versions through **Git** pull requests, GANNT charts and electrical schematics.

RELEVANT EXPERIENCES

Waterloo Rocketry

Oct 2022 - Jan 2023

- Learned how to create electrical schematics in **KiCad** through team onboarding tutorials.
- Assisted in debugging ground-side electrical and hardware systems.

University of Waterloo Kendo Instructor

Feb 2023 - Ongoing

- Trained over tens of new members every week on the Japanese martial art of Kendo.
- Organized a session every week, convening with other instructors to provide the best lessons.

EDUCATION

University of Waterloo

2022 - Present

- Candidate for B.A.Sc. Electrical Engineering (GPA: 3.8/88%)