

KAZUTO KAMBARA

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EDUCATION

Bachelor of Engineering in Computer Engineering, McGill University

Expected 2024

International Baccalaureate, Institut Le Rosey

2008 - 2015

SKILLS

Technical Skills Java, C, Python, JavaScript, Express.js, Git, NumPy, VHDL, Spring, Vue.js, Gradle,
Assembly Language, Adobe Illustrator

Language Japanese and English (Native, Written and Oral)
French (Upper Intermediate, Written and Oral)

PROJECTS

Embedded System for simulating Brass Instrument response

- Implemented a device that analyzes the buzzing input from a trombone mouthpiece and the slide length to generate the corresponding sound of a trombone.
- Using my knowledge of microprocessors and digital signal processing, designed a component that uses sound detector values from an ATmega328P processor to find the fundamental frequency of the tone being played.

VR Game for patients with Parkinson's Disease (Sponsorship Prize at NeuroVR Hackathon)

- Collaborated across disciplines to create a VR game that employs the "groove response" to mitigate effects of Parkinson's disease.
- Used Unity, C#, and Meta XR Core SDK to craft an accessible game experience that not only earned us a sponsorship prize but also opened new avenues in therapeutic gaming.

Truck Drivers Job Notification System (First Prize in Hackathon Sponsorship Challenge)

- Developed a real-time notification system that enhanced job matching for truck drivers using Express.js and MQTT.
- Innovated with Leaflet for an intuitive front-end display, and took inspirations from advanced search heuristics to design a back-end program for improved operational efficiency.

RESTful Parking Lot Management System

- Spearheaded the development of a RESTful application built on Spring Boot and Vue.js.
- Integrated Agile practices, facilitated design and scrum meetings, and ensured robust documentation and seamless communication throughout the project.

Visually Guided Warehouse Robot Prototype

- Engineered a warehouse robot prototype capable of navigating using floor markers.
- Carefully translated client needs into requirements and specifications, and personally innovated solutions to challenges such as devising a rotation history buffer to flawlessly manage sharp turns.

STM32 Memory Game

- Using the D/A converter and accelerometer included in the STM32L4+ Series Discovery kit, designed and implemented a memory game that takes board movement as user input.

- Took charge in implementing and testing a persistent scoreboard that accessed the flash memory over the Quad Serial Peripheral Interface (QSPI).

Java-based Guest and Resources Management application

- Developed an application for a model company using umple, Gherkin and Java FX
- Maintained a GitHub repository, giving a presentation at the end to demonstrate its workings, and defend our design decisions

EXPERIENCE

Intern

Sep 2018 - Jul 2019

Investream Consulting Ltd.

Hong Kong SAR

- Prepared and proof-read contracts and legal documents for a ship management company, using attention to detail and organization of information to correctly lay out terms as well as detect errors.
- Translated communications between the company and its partners from English to Japanese and vice versa, improving communication speed and accuracy.

Barista

May 2022 - Sep 2022

Java U

Montreal, QC

- Designed an easy-to-navigate menu reference for staff using my design knowledge and experience in Adobe Illustrator, greatly reducing confusion and errors during billing.
- Operated a busy cafe, using time-management and organization skills to take orders, prepare orders and bill for multiple customers, as well as to maintain the shop clean and well-stocked while running most shifts alone.

EXTRA-CURRICULAR ACTIVITIES

- Member of a graphic design team. Created a logo for a student-run welcome event.
- Layout Editor at the campus' satirical magazine, designing extreme and unique layouts that can convey humor.
- Play the drums in a rock band. Performed at an event with over a hundred guests.