

OBAIDA KANDAKJI

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github.com/TA4life

EXPERIENCE

C++: Software Developer

FRC Robot

Ottawa, ON

Jan 2016 – Apr 2016

- Managed the development of autonomous hand eye coordination of the robot
- Directed build team to develop memory efficient code increasing uptime by **15%**
- Implemented shooter support system that resolved a motor failure

HACKATHONS

UOttawa Local Hack day

Ottawa, ON

December 2019

Discord Hack Week

Ottawa, ON

June 2019

PROJECTS

JavaScript: Sorting Algorithm Visualizer

November 2019 – December 2019

- Developed a sorting algorithm visualizer by implementing P5.JS which helped develop understanding of sorting algorithm differences
- Incorporated **Big O** notation by comparing time to completion

VB.Net: RGB Colour Mixer

September 2019 – October 2019

- Developed light UI which allowed user to create **16.8 million** color combinations
- Reduced Rendering time by **25%** by implementing a repeated graphics procedure step
- Incorporated hexadecimal naming scheme of all possible colors

JavaScript: Ingular Bot

June 2019

- Architected an auto-striking system to maintain server stability
- Automated key moderation features decreasing admin responsibilities by **40%**
- Implemented Perspective API to filter chat messages with no latency increase

Java: Lights Out Game

March 2019

- Implemented BFS algorithm to solve game state in the fastest possible way
- Developed a responsive GUI that changes according to board size
- Architected and organized a light UI which allows for infinite scaling of board size with only a **1.2s** delay

LANGUAGES

Java

JavaScript

Python

C++

VB.NET

EDUCATION

Honours BSc Computer Science Program

University of Ottawa

Sep. 2018 – Apr. 2022

Honours BSc Biochemistry Program

University of Ottawa

Sep. 2016 – Apr. 2018

TOOLS

Google API

Discord API

Perspective API

SightEngine

Klasa

Git

COURSES

ITI 1120 - Intro To Python

ITI 1121 - Intro To Java

ITI 1100 - Digital Systems

MAT 1341 - Linear Algebra

MAT 1348 - Discrete Math

MAT 2379 - Statistics

INTERESTS

Travel

Chess

Swimming

Photography