KAI YI (DAVID) ZHANG

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EXPERIENCE

Computer Programmer

Agriculture and Agri-food Canada

may 2019 - August 2019

♥ Harrow, ON, Canada

- Maintained EasyGrapher DSSAT used by the DSSAT Team
- Updated and implemented new statistical tools for EasyGrapher DNDC
- Published the newest version of EasyGrapher DSSAT to the DSSAT team
- Developed new installation procedures for future employees
- Created various maps analyzing agriculture data using ArcGIS

Vex Robotics Team Leader

Appleby College

Movember 2015 - March 2018

Oakville, ON, Canada

- Built a robot that completed various different tasks
- Co-developed the code used to control the robot using ROBOTC
- Lead a group of young students and built the robot

PROJECTS

Biquadris (C++ Game Development)

University of Waterloo

- Movember 2019
- Collaborated in a team of 3 to developed a turn based Tetris-liked game
- Designed important program structures to improve flexibility of the game board and improved the overall efficiency of the game
- Implemented the main body of the game by writing core classes and combining code from other team members

A* Simulation (Java Application)

Personal Project

- Movember 2016 April 2017
- Self-taught the A* path-finding algorithm and the required Java GUI knowledge
- Implemented the A* algorithm by making helper classes and designing a pseudo-code implementation
- Created an application that visually demonstrated the A* algorithm using Java's Swing toolkit

Website Design

Personal Project

May 2017 - August 2017

- Learned HTML and CSS by taking courses on Udemy and General Assembly
- Created a website using HTML and CSS by applying the knowledge from the online courses
- The website (yijimima.com) was previously hosted on HostGator, snapshots of the website can be found on the WayBack Machine
- Gained experience working with HTML, CSS and website hosting

PROFESSIONAL SKILLS

- Proficient in:

C++ C Windows OS Visual Basic
Scheme Java

- Familiar with:

HTML 5 CSS Linux Bash MIPS

ARM Visual Studio LaTex

- Basic Knowledge in:

(Python)(Git)(R)(JavaScript)

SOFTSKILLS

Adaptability Work Under Pressure

Team Work Time Management

Organization Communication

Responsibility Fast Learner

EDUCATION

Candidate for Bachelor of Computer Science

University of Waterloo

September 2018 - April 2023

Relevant Courses:

- Designing Function Programs (Racket)
- Elementary Algorithm Design and Data Abstraction (C)
- Object-Oriented Software Development (C++)
- Data Structures and Data Management
- Foundation of Sequential Programs

LEADERSHIP

Lifeguard/Swimming Instructor

YMCA Oakville

September 2016 - April 2017

- Insured pool safety by working in a team
- Designed lesson for young swimmer to learn