Colin Ruan

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SKILLS

- Languages: Java, Typescript, JavaScript, HTML/CSS, Python, C, C++, Haskell, Bash, SQL
- Tools: Git, Docker, GCP, AutoML, Firebase, MySQL, Unix
- Libraries/Frameworks: React.js, Node.js, Pandas, NumPy, OpenCV, Tensorflow

EXPERIENCE

Voltera Inc. Kitchener, ON Junior Developer May 2022 - Aug 2022

- Created a machine learning model to detect the quality of a 3D print using AutoML
- o Created a Dockerfile and Docker Compose file that builds a Docker container which calls the ML model
- Developed the user facing app using **Typescript** and **React.js**
- o Designed a cloud image gallery using Google Cloud Platform and Firebase Cloud Storage
- Worked with Raspberry Pi 3 and Jetson Nano development boards

Coding Club Aurora, ON PresidentSep 2018 - June 2021

• Introduced students to the fundamentals of Java and object oriented programming

- o Prepared students for the Canadian Computing Competition
- Taught lessons using tutorials and practice problems

Projects

Chess github.com/cruan9/Chess C++Nov 2022

- Created a functional chess game with key concepts of object oriented programming in C++
- Worked with group members to collaborate on various aspects on the chess game
- Implemented various difficulties of computer level as well as a two player mode
- Created an intuitive graphical display of the chess game using XWindow

TFT Statistics github.com/cruan9/TFTStats PythonFeb 2022 - Present

- Provided the user with relevant statistics for the game Teamfight Tactics in Python
- $\circ\,$ Used RESTful API to import JSON data from a server
- Parsed and analyzed the JSON data to output winrate, common units, etc.

Tic-Tac-Toe github.com/cruan9/TicTacToe March 2022

React.js, HTML, CSS, Javascript

- Designed a Tic-tac-toe game using **React.js**
- o Interactive interface that changes based on the board state
- Allowed the user to return to previous board states and undo moves

Python

o Created an AI that detects the sentiment of a message using Python

• Collaborated with group members to improve the efficacy of the AI

Personal Website

cruan9.github.io HTML, CSS Dec 2021 - Present

- Designed a personal website using HTML and constructed an interface for all users using CSS
- Deployed on GitHub pages for users to visit on any device
- Use of embedded links to guide the user towards information about myself

Honors and Awards

Ignition Hacks

- Recipient of University of Waterloo President's Scholarship (\$2000) 2021
- Distinction Award in the Senior Canadian Computing Competition (CCC) —
- Distinction Award in the Euclid Math Competition (Placed top 1% of participants) 2021
- Distinction Award in the CSMC Math Competition (Placed top 1% of participants) 2020-2021
- Qualifier of American Invitational Mathematics Examination (AIME) (Placed top 5% of participants) —

EDUCATION

University of Waterloo Bachelor of Computer Science

Aug 2020

github.com/cruan9/IgnitionHacks2020