Caleb Tiger Choi

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SKILLS

Java, C, C++, Arduino C, HTML, CSS, Linux, Git, and Nginx

PROIECTS

O REMOTE MONITOR [IAVA]

- A centralized, real-time LAN keylogger/screenviewer that allows for monitoring of multiple computers
- Connections implemented by Java TCP/IP sockets and handled in multiple threads
- Uses the **jnativehook** library for global input, and the GUI is built with the **Java Swing** library

○ CLOCK SUITE [ARDUINO, C, C++]

- A 24-hour adjustable clock displayed through binary LED indicators and an LCD
- Includes stopwatch and timer functionality, which can run concurrently with the global clock
- Runs off the **Arduino MEGA**, using internal delays for synchronization to an accuracy of ±4 seconds per hour

O CHINESE CHECKERS CLIENT [JAVA]

- An Al Chinese checkers client that competes against 5 opponent Als over a LAN tournament
- Created the AI, implementing a dynamic depth first search algorithm which won first place in 5/9 rounds

O RHHS EVENT PLANNER TOOL [JAVA]

- Organizes registration, table seating, and food preferences, for any social event
- Implemented the **modular data system**, allowing for customizable food, table, and ID options
- Created the **file handling**, and the **instant updating search** functionality

○ CALEBCHOI.ME [HTML & CSS]

- Personal portfolio, built from scratch using HTML and CSS, and runs on Nginx
- DNS and backend is personally managed through an Ubuntu VM on Google Cloud Engine

WORK & ACTIVITIES

- O RHHS COMPUTER SCIENCE CLUB EXECUTIVE (August 2015 June 2017)
 - Ranked 1st in the McMaster University Science Olympics software challenge
 - Provincial finalist in the 2016 ECOO team programming competition
 - Helped organize, manage, and teach the Python and Linux classes of around 20 people

O KID'S GREAT MINDS (July 2013 - August 2013)

■ Taught and tutored basic Java and Scratch programming at a summer camp

EDUCATION

- O UNIVERSITY OF WATERLOO (September 2017 April 2022)
 - Candidate for Bachelor of Software Engineering (BSE)
- O RICHMOND HILL HIGH SCHOOL (September 2013 June 2017)
 - Received a 5 on the AP Computer Science exam

INTERESTS & ACTIVITIES

Programming, composing music, cooking, table tennis