Caleb Tiger Choi

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SKILLS

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

PROIECTS

O REMOTE MONITOR [JAVA]

- A centralized, real-time LAN keylogger/screenviewer that allows for monitoring of multiple computers
- ◆ Connections implemented by TCP/IP sockets and handled concurrently 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

○ 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 Java and Scratch programming at a summer camp

EDUCATION

O UNIVERSITY OF WATERLOO (September 2017 - April 2022)

- ◆ Candidate for Bachelor of Software Engineering (BSE)
- ◆ Dean's Honours List for term 1A (>88% term average)

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