Sterling Finn

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github.com/sefinn

Languages: C, C++, C#, Java, HTML, CSS, JavaScript, Python, Swift, SQL

Tools/Frameworks: Git, Linux, freeRTOS, ARM, Xcode, AWS, Bootstrap, Node.js, Unity3D

Professional Experience

Pelyco Systems Corporation — Ottawa / Foster City, CA
Software Engineering Intern — May – August 2018
- Designed and developed software for the next generation of the Ex N' Flex motion therapy machine
- Written in C on an ARM microcontroller and designed with freeRTOS
- Re-implemented high-level functionality from old machine onto the new microcontroller
- Implemented features including UART, FPGA, and PIO modules

Global Society of Genetics and Genome Biology — University of Toronto
Technology and Innovations Executive — February – May 2018
- Collaborated with upper year students to design and modify the website gsggb.org for the international club
- Coordinated with the club executives and delivered project objectives to colleagues at the University of Waterloo

Waterloo Coffee and Coding Club — University of Waterloo
Executive Team Leader — August 2018 – Present
- Organizer of weekly meetings where members are introduced to basic coding concepts
- Coordinated with multiple Waterloo coffee roasteries to sponsor the club and enhance meeting enjoyability

Projects

Chip8 Emulator – github.com/sefinn/chip8-emulator — July 2018
- Developed an emulator from scratch for the Chip-8 language in Java on Eclipse
- Capable of playing 8-bit games including pong, tetris, and space invaders

Mountain Views – www.mountainviews.ca — PennApps XVII
- Developed a social media platform on a website and Android application for hikers/climbers, including an integrated wristband that transmits your location in case of emergency while on a trip
- Implemented AWS DynamoDB, S3 Bucket and EC2, for storing user information and Node.js for creating a dynamic social media platform

Flappy Future - github.com/djoksimo/FlappyFuture — Delta Hacks IV
- Developed an endless-runner Android VR Game using Unity3D and physics simulated in C#
- Paired Leap Motion hardware sensors using machine learning API from Xesto

Text Excel - github.com/sefinn/VisiCalc — April 2017
- Replicated the classic computer program VisiCalc in Java using Eclipse
- Implemented object-oriented programming strategies for high-level functionality

Achievements
- Eagle Scout with bronze palm and gold palm
- Seal of Biliteracy for French, San Mateo High School
- Dual citizen of the USA and Canada

Interests
- Trombone and guitar player in Waterloo Engineering Jazz Band
- Juggling fire
- Dunking on my intramural basketball team

Education
- Bachelor of Software Engineering, University of Waterloo, 2017-2022