RYAN **KELSEY**

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Skills

Languages	Python, C, PHP, HTML5/CSS3, JavaScript, Java, MySQL
Tools	Firebase, Docker, Git, Bash, MS apps (excel, word, etc.), LaTeX, Visual Studio code.
Frameworks	NodeJS, JUnit, bootstrap, XAMMP, Gradle.
Soft Skills	Problem solving, excellent communication skills, time management, ability to work well under pressure.

Work Experience

Ontario Soil and Crop Improvement Association
Guelph, ON

Full Stack Web Developer
April. 2022 - Aug. 2022

- Utilized HTML5, PHP, CSS3, SQL, and JS to create or optimize several components of OSCIA's website
- Developed web applications to automate day-to-day tasks encountered by coworkers – assisted the training of staff on the use of said applications.
- Worked with REST APIs for micro-services integrating valuable external information into the database.
- Created a new feedback form, vastly improved user registration, and enhanced existing event creation forms with new abilities.
- Frequently used SQL in areas of the website for the storage and querying of user data.

IT Web Developer
Jan. 2022 - April. 2022

- Debugged and tested various aspects of the website and database.
- Assisted with the release of new features and various IT operations.
- Brainstormed, implemented, tested, and released new features.
- Worked alongside graphic designers in a site redesign for a more visually appealing front-end (can be seen at ontariosoilcrop.org).
- Used analysis tools such as Google Lighthouse to improve page load speeds.

Education

University of Guelph
ON, Canada

Bachelor of Computer Engineering
Sept. 2019 - April. 2024

- Dean's Honours list recipient.
- Coursework focused on: Software development and integration, systems design, re-configurable computing, operating systems.

Projects

Home Intruder System — *uC/OS-III*
- Real-time home intruder system developed with the uC/OS-III kernel. Utilized motion sensor and camera modules along with a STM32 development board.

Database server with GUI — *JS, HTML, CSS, SQL*
- Created a front-end and back-end web server with GUI and user databases for the storing/manipulation of data.

Employer/Student Database — *mySQL*
- Personal database storing employer and employee COOP job information, from University of Guelph and University of Waterloo - Used for screening potential employers.

Toy car with crash avoidance — *C, Arduino*
- Bluetooth controller toy car with basic crash avoidance system.

XML to GPX parser — *C, JS*
- Parser that takes in any valid XML tree and converts it to a valid GPX tree, which then can be read and interpreted by a user. Includes all functionality of any standard GPX document.

Basic CPU — *VHDL, FPGA*
- Developed a rudimentary CPU with VHDL and a field programmable gate array. CPU utilized parallel processing to achieve arithmetic and logic operations on set(s) of data.