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github.com/rkzill

Ryan Kelsey

Qualifications

- Proficient C and Java 8 programmer with experience creating shared libraries and algorithms for the ingestion, manipulation and storage of data.
- Utilized Microsoft's SQL Server, JavaScript, C, HTML, and jQuery to design a GPS database website from the ground up (both front and back end)
- Familiar with noSQL database designs, as well as PHP.
- Excellent time management and team leadership skills acquired from heavily project based courses.
- Knowledge and frequent use of Linux operating systems.

Education

University of Guelph, Computer Engineering (CO-OP) | 2019 – present

- Coursework focused on: Software development and integration, OOP, Data Structures, systems analysis, hardware design.

Projects

- **Games utilizing a GUI** | Python | (2018) – Hangman, Blackjack, and Pong coded from scratch
- **Toy Car with Crash Avoidance** | C, Arduino | (2019) - Bluetooth controller toy car with basic crash avoidance system
- **GUI E-store** | Java 8 | (2020) – Fully functional E-store allowing the listing of products for sale.
- **Information Databases** | Java 8 | (2020) - Databases with focuses of securely storing student information, employer information, etc.
- **XML to GPX parser** | C | (2021) - A 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
- **Server with GUI and Database** | C, JS, HTML, SQL | (2021) - Created a front-end and back-end web server with GUI and user databases for the storing/manipulation of data. JSON strings were used heavily for this project.
- **Personal Website** | HTML, JS, CSS | (2021) – Recently developed front end website featuring information about myself. RyanKelsey.com

Work Experience

Ontario Soil and Crop Improvement Association, Guelph, ON.

Jr. IT Web Developer (Jan 2022 – Present)

- Utilized HTML, PHP, CSS, and Foundation 6, along with jQuery to create and optimize several components of the company's website, such as data ingestion, UI design, and security.
- Worked alongside specialists such as web developers and graphic designers for the assistance in website and application design.
- Frequently used SQL for the storage and querying of data.
- Debugged and tested various aspects of the website.