Peter Regas

✉ pregas@hotmail.ca ☐ 905-244-4334 🌐 peterregas.ca

EDUCATION

Bachelor of Science (Honors) in Computer Science
Ontario Tech University · 2023 · With Distinction

EXPERIENCE

Computer Science Co-Op Student - Conventional Safety and Radiation Protection Training
Ontario Power Generation   January 2021 - August 2021

· Creating a training quality effectiveness tracking system for 3 of our largest courses affecting **2000+** employees per quarter using Excel, Visual Basic, and Smartform, this project is now continually maintained.
· Working independently as well as in teams to **update 100's training courses** to comply with new company objectives, **these courses are then taken by all employees** and are required for qualifications.
· Researching effective modern teaching methods to use in updating the catalog of training courses taken by **10000+ employees** and presenting these findings to the department heads.
· Establishing detailed documentation for the training quality effectiveness system using visuals, videos, and written work. Allowing the project to be continued and easily maintained.
· Providing first-line I.T support for the departments solving various issues within the **Microsoft Office Suite, Smartform, and other company software**.

PROJECTS

Titan Tower Defense - Unity/C# - Trailer Available on PeterRegas.ca
· Implementing key physics features such as **ray-traced lines of sight, projectile movement, enemy mass, and collision**.
· Using **encapsulation, inheritance, polymorphism, and abstraction** to ensure all aspects of the game are easily modifiable and scalable for future updates.
· Integrating a global leaderboard system using **cloud storage**.
· Creating modern **U.I, custom model rigging, 3d animations, event scripting, and audio**

Wordle Clone - Python/JavaScript/React/Flask/MongoDB - Trailer Available on PeterRegas.ca
· Using **React/CSS/JavaScript** to create the gameboard and front end of the project.
· Implementing a **MongoDB Database** to store encrypted login information, daily high scores, and the current Wordle word.
· Designing **user registration and login using utf-8 encryption** and best practice password strength requirements.
· Creating a login and registration page using **Javascript and React**.
· Connecting the front end to the database using **Flask** for request handling.

Fully Automated Home Media Server - Docker
· **30+ users** can select media content of their choice then request and view it within minutes making use of **10+ open source applications** working in conjunctions to automate the process.
· Fully automating media indexing and downloading for millions of results using peer-to-peer and centralized Usenets.
· Using best security practices implementing **docker containers, VPN, proxies, reverse-proxies, SSL**, and more.
· Automatic downloading of new episodes and quality upgrades to existing content when they become available using RSS feed data.

Excel/Access Project: Lamp Manufacturing
· Using Excels "What if" functions such as **goal seek and Scenario manager** to find theoretical outputs of given inputs.
· Creating **custom macros using visual basics** to complete tasks efficiently.
· Managing **Access databases** for company data.

INVOLVEMENT

University of Ottawa · University Sports Football(Formerly CIS Football) · 2016
· Attending without fail over 35 hours of meetings, practices, and games weekly while attending full time studies.
· Collaborating with over 100 other players to learn and run over 1000 plays on a daily basis is mandatory for success on the team.

SKILLS

Languages: Java, C++, C#, Python, Visual Basic, Flutter, Dart, HTML, JavaScript, CSS, React, Flask

Other Technical: Git, Ubuntu, MongoDB, Unity, Excel, Access, Word, Photoshop, Premier