

Peter Regas

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EXPERIENCE

Co-Op Student – Conventional Safety and Radiation Protection Training

Ontario Power Generation

January 2021 – August 2021

- 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 1000s of employees and are required for qualifications.
- 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.
- Researching and presenting findings to the department heads on effective teaching methods to help with laying the foundation for updating the catalog of training courses.
- Establishing detailed documentation for the training quality effectiveness system using visuals, videos, and written work. Allowing the projects 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#

- Collaborating in a 2 person team to develop a 3d Unity tower defense game on a strict schedule.
- Designing a fun gameplay loop involving defeating increasingly stronger enemies, earning currency, and upgrading defenses.
- Implementing key physics features such as ray-traced lines of sight, projectile movement, and enemy mass and collision.
- Creating a fully traversable environment, with dynamic changes as you progress.
- Following good practices to ensure all aspects of the game are easily modifiable and scalable for future updates.
- Integrating a global leaderboard system using cloud storage.

Wordle Clone – Python/JavaScript/React/Flask/MongoDB

- Working in a team of 5 to create a website to mimic the popular "The New York Times" game Wordle.
- Leading the implementation of the backend 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.

Tobogganing Companion App – Flutter/Dart

- Working in a team of 4 to create an app for finding, rating, and reviewing Tobogganing hills.
- Implementing a Firestore database and authentication setup to store hill information, photos, ratings, and reviews as well as user accounts.
- Creating Geolocation features to allow users to locate, add, and search hill locations on a scrolling map.
- Designing and adding additional features such as camera support for adding photos, reminder notifications to checkout bookmarked hills, and HTTP requests for directions to the hills.

Fully Automated Home Media Server – Docker

- 20+ users can request any media 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.

EDUCATION

Bachelor of Science (Honors) in Computer Science

OntarioTech University • 2023 • With Distinction

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

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.