Amanda Clement

amanda_clement@outlook.com
514 862 4797
linkedin.com/in/amanda-clement
amandaclement.github.io/portfolio

Education

Bachelor of Computer Science: Joint Major in Computer Science & Computation Arts
CONCORDIA UNIVERSITY   2019 - 2023   Graduated with Great Distinction (GPA: 4.07 / 4.30)

Diploma of College Studies: Graphic & Web Design
JOHN ABBOTT COLLEGE   2016 - 2019   Honour Roll

Work Experience

Software Developer   LABLABLAB (CONCORDIA UNIVERSITY)   2023
* Improved system functionality and quality by developing, refining, and debugging features, mechanics and UI components using **C#** and **Unity**
* Boosted user engagement by designing and implementing a reward-based dynamic portrait creation tool
* Ensured seamless integration of new UI components by collaborating with the UI/UX team to translate designs into code

Web Designer (Freelance)   VOCALTEK   2021 - 2022
* Modernized design and enhanced usability of client's website through a complete revamp
* Simplified website management, improved scalability, and facilitated analytics tracking using **WordPress** as CMS
* Streamlined communication by integrating a contact form, prompting users to provide all necessary information upfront

E-Commerce Customer Service Representative   VF CORPORATION   2019 - 2022
* Provided customer service by phone, email, and live chat for The North Face, Vans, and Timberland
* Minimized the processing of fraudulent transactions by reviewing orders flagged by the payment software

Web Design Intern   MTY FOOD GROUP   2019
* Increased website traffic by creating engaging promotional email newsletters using **HTML** and **CSS**
* Facilitated stakeholder communication and alignment by translating concepts into website wireframes, prototypes, and mockups using the **Adobe Creative Suite**

Projects   *Further details and source code links can be found in my web portfolio: amandaclement.github.io/portfolio*

Raytracer   C++   2023
* Built a raytracer from scratch using **C++**, with support for sphere and rectangle primitives
* Implemented a local illumination model for point and area lights using Blinn-Phong shading
* Implemented a global illumination model using Monte Carlo path tracing for realistic lighting effects
* Integrated anti-aliasing using stratified subpixel sampling to improve image quality

COVID-19 Emotion Map   JavaScript / Node.js / Express.js / p5.js / HTML / CSS / MongoDB / Twitter API   2022
* Extracted COVID-19 related Tweets using the Twitter API, using **MongoDB** to store and manage the data
* Applied natural language processing techniques like tokenization and stopword removal
* Categorized each Tweet with an emotion based on the processed data
* Developed an interactive web-based data visualization using **JavaScript**, **p5.js**, **HTML** and **CSS** to illustrate derived insights

Technical Skills

Programming Languages: Java / C# / C++ / Python / JavaScript / HTML / CSS
Frameworks & Libraries: React / Node.js / Express.js / p5.js / OpenGL
Tools: Git / VS Code / Eclipse / MongoDB / WordPress / Unity / Arduino / Blender / Adobe Creative Suite / Figma
Languages: English / French