

Amanda Clement

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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 and mechanics using **C#** and **Unity**
- * Extended the user interface by implementing design concepts, ensuring seamless integration with the existing codebase
- * Enriched data exploration capabilities by creating a sorting and filtering tool for dynamic datasets
- * Boosted user engagement by designing and developing a reward-based portrait creation tool

Web Designer

VOCALTEK (FREELANCE)

2021 - 2022

- * Modernized the design and enhanced the usability of the 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 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 / 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**, **HTML**, **CSS**, and **p5.js** to illustrate derived insights

Skills

Programming Languages: Java / C# / C++ / Python / JavaScript / HTML / CSS

Tools: Git / VS Code / Eclipse / WordPress / Unity / Arduino / Blender / Adobe Creative Suite / Figma

Languages: English / French