CALEB ENG

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Markham, ON

https://calebeng.github.io/

WORK EXPERIENCE

Summer 2024
PureFacts
Software Engineering Intern

- Debugging and resolving:
  - Front-end issues in JavaScript and HTML
  - Back-end issues in C#
- Developed new back-end functions to support expanded application features
- Creation of a data dictionary for client use
- Presented reports in daily stand up meetings to discuss progress and challenges

PROJECTS

Computer Vision
Python, Google Colab, TensorFlow, Scikit-learn
Emotion Detection Program

- Developed a CNN trained on facial emotion data
- Co-led a group of 5, overseeing the development and testing of a CNN model variant
- Conducted background research to support model architecture, dataset selection and training strategy
- Facilitated team communications to track model training, and project deadlines

Computer Graphics
C++, OpenGL/Glut
3D graphics project

- Implemented 3D rendering using OpenGL, including camera controls, lighting, and textured object rendering
- Utilized vector normalization and spherical-to-Cartesian conversion for custom camera systems and projectile targeting

Web Development
XAMPP, PhP, MySQL, AngularJS, Javascript, CSS, HTML
E-Commerce Website

- Developed both front-end and back-end functionality of the reviews, home and store page
- Created the relational database schema for efficient data storage
- Led the development of the SPA architecture and routing system, allowing for unified page development for the team

EDUCATION

2021-2025
TORONTO METROPOLITAIN UNIVERSITY

- BSc (Hons) Computer Science

2017-2021
BILL HOGARTH SECONDARY SCHOOL

- Ontario Secondary School Diploma

SKILLS

- **Languages:**
  - Java, Python, C, C++, C#, HTML, CSS, JavaScript, PhP, Lisp, Rust, Elixir, PROLOG, SQL, Bash Scripting
- **Frameworks:**
  - AngularJS, Angular
- **Tools:**
  - GIT, VS Code, Visual Studio, Unity, SQL developer, MySQL, XAMPP, Google Colab
- **Libraries:**
  - TensorFlow, Scikit-learn, OpenGL/Glut, Numpy

REFERENCES

- Available upon request