VICTOR TAING

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GitHub https://github.com/vtaing10

SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems │ •Windows 10 • mac OS • Mobile

Applications │ • Word • Excel • PPT • Eclipse • Visual Studio Code • GitHub • Google Colab

Programming │ • Java (Intermediate) • Python (Intermediate) •Sage Math (Intermediate) •HTML (Intermediate) •CSS (Intermediate) •JavaScript (Intermediate) • C (Basic) • NodeJS (Basic) • Clojure (Basic) • Erlang (Basic)

Languages │• French|Spoken & Written •English|Spoken & Written •Spanish|Spoken & Written • Khmer|Spoken.

EDUCATION

Bachelor of Engineering – Software Engineering Co-op   **2023- 2027 (Expected)**
Concordia University, Montreal, QC
  • Member of the Institute for Co-operative Education
  • Relevant Courses: Mathematics for Computer Science, Object Oriented Programming, Web Programming, System Hardware, Object-Oriented Programming II, Principle of Programming Languages, Data Structures and Algorithms, Operating System, Introduction to Formal Methods, Software Process.

PROJECTS

My Portfolio (Personal)   **2023-Present**
  •Developed an intuitive portfolio website with **HTML**, **CSS**, and **JavaScript**, which helps improving **user engagement** and time spent on the website.
  •Implemented a **responsive** web design, ensuring seamless functionality across multiple devices and browsers, as confirmed by **cross-platform testing**.

FormCheck AI (ConUHacks VIII)   **January 2024**
  •Developed a tool using **OpenCV** and **MediaPipe**, to track and analyze the quality of exercises repetitions.
  •Modified an **open-source** pose recognition **model** to give users live feedback on their workout form, broadening its use to multiple exercises.
  •Built a simple interface with **CSS** and **HTML**, enabling users to easily access and benefit from the tool's guidance.
DEVPOST: https://devpost.com/software/fitnesscheck-ai

Safe and Sound (PolyHacks 2024)   **February 2024**
  •Developed 'SafeAndSound', a **Python** program to monitor and analyze noise pollution in urban areas.
  •Utilized **PyAudio** for noise level detection and **Matplotlib** to graphically represent noise data over time.
  •Created **Tkinter** interface to display live and average noise levels, helping cities identify high-noise periods while giving the possible consequences with the possible solutions.
DEVPOST: https://devpost.com/software/safe-and-sound-zms5nj

FlyHigh (PolyHacks 2025)   **February 2025**
- Developed an AI-powered cloud classification model using **Flask** and **TensorFlow** to predict weather based on cloud images.
- Built **a full-stack web application** with a **React** frontend and **Flask** backend, leveraging **Google Colab** for AI training.
- Implemented **data preprocessing** and **augmentation techniques** to improve model to improve model accuracy and enhance training efficiency.

DEVPOST: https://devpost.com/software/flyhigh

WORK EXPERIENCE

Software Engineering Research Assistant   **Sept 2024 – Nov 2024**
Healthcare Systems R&A Inc., Waterloo, Ontario
- Achieved a **92.23%** validation precision and **reduced** dice loss **to 0.1320** by leveraging a larger dataset and heatmap integration, improving model performance.
- Enhanced validation precision by **8.41%** and **reduced** dice loss by **97.56%** through the innovative **combination** of **ground truths** with **heatmaps**, achieving significant improvements in test data.
- Applied **cyclical model-saving** and **dynamic dataset-updating** techniques, boosting validation precision by **0.99%** and reducing dice loss by **4.51%,** optimizing training efficiency.
- Integrated **gradient-based landmark gap** evaluation and **cyclically updated** test data, improving test precision and significantly lowering test dice loss.
- Optimized model code to be **RAM-efficient**, enhancing overall training speed and resource and utilization, ensuring smoother model execution.

Peer Tutor   **Jan 2021 – May 2022**
Collège Bois-de-Boulogne, Montreal, Quebec
- Identified student difficulties and provided comprehensive support.
- Developed personalized study plans to enhance student understanding.
- Communicated complex concepts in an accessible manner.
- Built strong rapport with students, fostering a positive learning experience.

Restaurant Staff   **March 2019 – May 2022**
MOMOKO, Saint-Bruno, Quebec
- Provided table services and ensured smooth operation service.
- Delivered exceptional customer service and addressed inquiries promptly.
- Managed multiple tasks in a fast-paced environment.
- Worked collaboratively with team members to maintain high standard of service.

EXTRA-CURRICULAR ACTIVITIES

Co-founder & President   **February 2024-Present**
Asian Experience Organization
- Established the A.E.O at Concordia University to serve as a premier social club for fostering connections and enhancing student life through planned social night events.
- Successfully raised over **$15,000** for the organization through various fundraising initiatives.
- Achieved over **150,000 views** across our platforms, significantly increasing visibility and engagement within the community.
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Captain & VP-Events   **April 2024-Present**
Concordia Dragonboat Club
- Provided mentorship and support to team members, fostering cohesive and motivated team environment.
- Organized and managed internal club events and activities to enhance camaraderie and morale.