
EDUCATION

- **RMIT University Vietnam** Ho Chi Minh City, Vietnam
Bachelor of Information Technology in Artificial Intelligence; GPA: 3.50 *Oct. 2020 – Expected: Mar. 2025*
- **Seattle Central College** Seattle, WA, United States
Associate of Liberal Arts and Sciences; GPA: 3.00 *Sep. 2016 – Aug. 2017*

RELEVANT COURSEWORK

Machine Learning, Practical Data Science, Data Structures and Algorithms, Fullstack Development, Database Application, Software Engineering Design, Computing Theory, Artificial Intelligence, Calculus I

PROJECTS

- **Flower Classification and Recommendation System**
📄 *miketvo/rmit2023a-cosc2753-assignment2* | 📄 *Dataset: Kaggle - miketvo/rmit-flowers*
 - **Languages and Frameworks:** Python, Keras, Tensorflow, Scikit-Learn, Pillow
 - **Model Development and Deployment:** Developed an in-house CNN solution for feature extraction and a robust flower image classification and recommendation pipeline with an accuracy score of 0.7.
 - **Leadership:** Led student research team to produce a high-quality research paper on the subject matter.
- **Sepsis Prediction Model**
📄 *miketvo/rmit2023a-cosc2753-assignment1* | 📄 *Dataset: Kaggle - chaungwynnghunh/sepsis*
 - **Languages and Frameworks:** Python, Scikit-Learn, Pandas, Seaborn
 - **F1 Score:** Achieved a F_1 score of 0.86 using a customized Bagged Tree model and robust data cleaning and preprocessing pipeline.
- **Imdupes**
Open-source versatile image deduplicator inspired by fdupes | 📄 *miketvo/indupes*
 - **Languages and Frameworks:** Python, PyInstaller, Pillow, NumPy
 - **Innovative Perceptual Hashing:** Achieved high-performance differentiating capability for images with transparency and minor differences by developing an in-house image hashing algorithm that utilizes both traditional perceptual hashing techniques and color histogram.
 - **Deployment:** Successfully deployed the application on Homebrew and Scoop package managers for quick-and-easy cross-platform installation process on MacOS, Linux, and Windows.
- **Open Source Vietnamese Keyboard for Keyman Input Method Editor**
📄 *miketvo/keyboards* | 🌐 *Keyman - Vietnamese Telex* | 🌐 *Keyman - Vietnamese VNI*
 - **Languages and Frameworks:** Python, Keyman Keyboard Language
 - **Exhaustive Vietnamese Keystrokes Generator:** Utilized Python scripting to generate exhaustive syllable-based Telex and VNI keystrokes configurations for the Keyman Keyboard Language from scraped dictionary of Vietnamese word.
 - **Open-source Collaboration:** Collaborated via GitHub with Keyman developers, managers, and user community to address bugs and deployment issues on Keyman App's established architecture.
 - **Deployment:** Both Telex and VNI versions combined achieved over 35,000 downloads in total on Keyman website as of 2024.
- **DsvCol**
Open-source cross-platform CLI-application pretty-printing delimiter separated value files | 📄 *miketvo/dsvcol*
 - **Languages and Frameworks:** C, CMake, Bash, PowerShell
- **Online Client Portfolio**
🌐 *duonghanhi.netlify.app*
 - **Languages and Frameworks:** JavaScript, Gatsby, PostCSS
 - **UI/UX Design:** Worked remotely with the client to design and develop a user-friendly and brand-conscious UI/UX using Agile project management methodologies.

SKILLS

- **Languages:** Python, SQL, Java, C/C++, JavaScript, HTML/CSS, Lua, Bash, MATLAB, TeX
- **Technologies:** Scikit-learn, Tensorflow, Keras, Pandas, React, NextJS, Vite, Express, MongoDB, MySQL
- **Tools:** Git, Vim, Visual Studio Code, Jupyter Lab, Jupyter Notebook, JetBrains IDEs, Linux, Jira, Excel, Tableau