

## 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, Database Application, Web Development, Fullstack Development, Data Structures and Algorithms, Computing Theory, Artificial Intelligence, Software Engineering Design

## PROJECTS

- **DsvCol**  
*Open-source cross-platform CLI-application pretty-printing delimiter separated value files | 🐙 miketvo/dsvcol*
  - **Languages and Frameworks:** C, CMake, Bash, PowerShell
  - **Cross-platform Build Support:** Developed cross-platform CMake build system for both Linux and Windows.
- **Full-stack E-commerce Web Application**  
🐙 miketvo/rmit-isys2099-group9-app
  - **Languages and Frameworks:** NodeJS, Express, Mongoose, Vite, ReactJS, Bootstrap, Axios, MySQL, MongoDB
  - **Leadership:** Utilize Agile methodology to lead a team of student of multiple specializations.
  - **Database Design:** Worked as the lead relational database architect to help deploy the application database.
- **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, responsive, and brand-conscious portfolio landing page.
- **Open Source Vietnamese Keyboard for Keyman Input Method Editor**  
🐙 miketvo/keyboards | 🐙 miketvo/vn-kmn-compiler | 🌐 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 from automated analysis and extraction of Vietnamese dictionaries. Related project: 🐙 Telex based Han Nom input method schema generator.
  - **Open-source Collaboration:** Worked with Keyman developers and user community on keyboard deployment.
  - **Deployment:** Both Telex and VNI versions combined has over 35.000 downloads in total on Keyman website.
- **Imdupes**  
*Open-source versatile image deduplicator inspired by fdupes | 🐙 miketvo/imdupes*
  - **Languages and Frameworks:** Python, PyInstaller, Pillow, NumPy, Python unittest
  - **Innovative Perceptual Hashing:** Developed a novel high-performance and efficient in-house image hashing algorithm that utilizes both traditional perceptual hashing techniques combined with color histogram analysis, which has never been done before.
  - **Deployment:** Deployed the application on Homebrew and Scoop package managers for cross-platform installation process on MacOS, Linux, and Windows.
- **Sepsis Prediction Model**  
🐙 miketvo/rmit2023a-cosc2753-assignment1 | 📄 Dataset: Kaggle - chaunguynghunh/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.
  - **Research Writing:** Produced a high quality research paper on the dataset and models used for sepsis prediction as part of the assignment.
- **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.

## SKILLS

- **Programming:** C/C++, Java, Python, SQL, JavaScript, PHP, HTML/CSS, Lua, Bash, Batch, Powershell, VBA, TeX
- **Technologies:** ReactJS, GatsbyJS, NextJS, Vite, ExpressJS, MySQL, MongoDB, JUnit, Tensorflow, Keras, Pandas
- **Tools:** Jira, Git, Vim, VS Code, Linux (Ubuntu & Arch Linux), Jupyter Lab/Notebook, JetBrains IDEs, Excel
- **Languages:** Vietnamese (Native), English (Bilingual)

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February 21, 2024

Dear Hiring Manager,

My name is Mike Vo. I am writing to express my interest in applying for the AI / Software Research Intern position at Katalon. Currently pursuing a Bachelor degree in Information Technology with specialization in Artificial Intelligence & Data Analytics at RMIT University Vietnam, and anticipating graduation in early 2025, I am excited about the opportunity to contribute my skills and enthusiasm to your team.

In my academic journey, I have gained a solid foundation in Machine Learning, Practical Data Science, and Artificial Intelligence. Through these academic experience, I have gained strong analytical and research skill, along with a keen attention to detail. I am constantly striving to improve and learn more about new developments in data analysis and modelling, and my eager-to-learn outlook allows me to learn and develop throughout my academic and professional career. I am confident in my ability to adapt and leverage my research skill as well as data science and machine learning knowledge to contribute practical solutions for your team.

As a proactive learner and team player, I have successfully completed various projects, ranging from machine learning classification and recommendation system to open-source software and web development. One notable achievement is my work on the Flower Classification and Recommendation System course project at RMIT University Vietnam, where I worked as the lead researcher and machine learning specialist of my team, utilizing convolutional neural network and deep learning to achieve a good performance result on our flower classification model. This has strengthen my skill to work both independently and in a team environment, with a strong focus on the data science knowledge of data analysis, classification algorithms, and clustering algorithms.

Thank you for your time and consideration. I look forward to the opportunity of contributing to and learning at Katalon.

Best regards,  
Tuong-Minh (Mike) Vo