Tuong-Minh (Mike) Vo
Data Scientist & Software Engineer
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Education

- **RMIT University Vietnam** — Ho Chi Minh City, Vietnam
  Bachelor of Information Technology in Artificial Intelligence; GPA: 3.50/4.00 — *Oct. 2020 – Expected: Mar. 2025*
- **Seattle Central College** — Seattle, WA, United States
  Associate of Liberal Arts and Sciences; GPA: 3.00/4.00 — *Sep. 2016 – Aug. 2017*

Relevant Coursework

Machine Learning, Practical Data Science, Data Structures and Algorithms, Computing Theory, Artificial Intelligence, Fullstack Development, Database Application, Software Engineering Project Management

Projects

- **Full-stack E-commerce Web Application (React/Node/RDBMS/NoSQL)** — Aug. - Sep. 2023
  miketvo/rmit-isys2099-group9-app
  - **Languages and Frameworks**: NodeJS, Express, Mongoose, Vite, React, Bootstrap, Axios, MySQL, MongoDB
  - **Responsibilities:**
    - Led the project as the Project Lead and SCRUM Master, coordinating and executing the project timeline.
    - Served as the lead database architect for the project's relational and NoSQL databases.
  - **Achievements:**
    - Utilized Agile and SCRUM methodologies to lead and enable a team of student of multiple specializations to deliver the project delivarables in a timely manner for each sprint while preventing scope creep and managing project risks.
    - Successfully deployed and integrated the application's MySQL and MongoDB databases with its backend and frontend components using REST API.
- **Flower Classification and Recommendation System** — May - Jun. 2023
  miketvo/rmit2023a-cosc2753-assignment2 | *Dataset: Kaggle - miketvo/rmit-flowers*
  - **Languages and Frameworks**: Python, Keras, Tensorflow, Scikit-Learn, Pillow
  - **Responsibilities**: Led student research team to produce a high-quality research paper on the subject matter.
  - **Achievements**: Produced a robust in-house convolutional neural network solution for flower image classification and recommendation pipeline ready for deployment with an accuracy score of 0.7.
- **Sepsis Prediction Model** — Apr. - May 2023
  miketvo/rmit2023a-cosc2753-assignment1 | *Dataset: Kaggle - chaunguynnghunh/sepsis*
  - **Languages and Frameworks**: Python, Scikit-Learn, Pandas, Seaborn
  - **Responsibilities**: Served as the solo data scientist and researcher for the assignment project.
  - **Achievements:**
    - Achieved a F_1 score of 0.86 using the Bagged Tree algorithm and implementing a robust data cleaning and preprocessing pipeline.
    - Produced a high-quality research paper on the dataset and models used for sepsis prediction.
- **Open Source Vietnamese Keyboard for Keyman Input Method Editor** — Feb. 2022 - Feb. 2023
  miketvo/keyboards | *miketvo/vn-kmn-compiler*
  - **Languages and Frameworks**: Python, Keyman Keyboard Language
  - **Responsibilities**: Worked with Keyman administrators, developers, and its user community on keyboard development, maintenance, and deployment within an international open-sourced collaborative environment.
  - **Achievements:**
    - Developed Python scripts to generate exhaustive syllable-based Telex and VNI keystrokes configurations by automatically analyzing and extracting data from Vietnamese dictionaries. Related project: Telex based Han Nom input method schema generator.
    - Both Telex and VNI keyboard versions combined has over 35.000 accumulative downloads on Keyman website as of 2024: Keyman - Vietnamese Telex | Keyman - Vietnamese VNI.
- **Online Client Portfolio** — Jun. - Jul. 2021
  duonghanhi.netlify.app
  - **Languages and Frameworks**: JavaScript, Gatsby, PostCSS
  - **Responsibilities**: Worked remotely with the client to design and develop a brand-conscious, user-friendly, and responsive portfolio landing page.
  - **Achievements**: Developed an interactive and attractive online portfolio to showcase the client's teaching experience, hosted using a distributed CDN and registered to a unique domain name for nearly 2 years.

Skills

- **Programming**: Python, SQL, Java, C/C++, JavaScript, PHP, HTML/CSS, Lua, Bash, Batch, Powershell, TeX
- **Technologies**: Tensorflow, Keras, Pillow, Scikit-Learn, Pandas, React, Gatsby, NextJS, Vite, Express, MongoDB, MySQL
- **Tools**: Jira, GitHub, BitBucket, Git, Vim, VS Code, Linux, Jupyter Lab/Notebook, Jetbrains IDEs, Figma, Illustrator
- **Languages**: Vietnamese (Native), English (Bilingual)