**Vy-Kha Huynh**

Longueuil, QC, Canada

514-386-4733

[vykha.huynh@outlook.com](mailto:vykha.huynh@outlook.com)

<https://www.linkedin.com/in/vy-kha-huynh-428963228/>

**EDUCATION**

**McGill University September 2020 – April 2024**

*Montreal, QC, Canada*

* Bachelor of Engineering - BE, Software Engineering

**LANGUAGES AND SKILLS**

**Languages**: English, French

**Programming Languages**: Java, Python, SQL, C, JavaScript, Bash, HTML, CSS

**Framework/Libraries:** React.js, Vue.js, NumPy, Pandas, Scikit-Learn

**Tools/IDEs:** IntelliJ, Visual Studio Code, Eclipse

**Version Control:** Git, GitHub, GitLab

**Testing:** Cucumber, Gherkin, Postman, Mockito

**PROJECTS**

**CIFAR10 MLP Multi-Classifier** (Python, Numpy, Pandas, SciKit Learn, Google Colab)

**February 2023 – May 2023**

* Collaborated as a Machine Learning Engineer for a 3-member team to develop an MLP classifier to classify the CIFAR-10 dataset achieving an accuracy rate of 86%.
* Acquired, preprocessed, and normalized data using Numpy and Pandas dataframes, ensuring accurate model performance from CIFAR10.
* Implemented Gradient Descent and Stochastic Gradient Descent (SGD) from scratch with backpropagation.
* Developed fit and predict class functions to train and test the MLP with tunable hyperparameters such as number of hidden layers and number of hidden units for each layer.

**Bankruptcy Logistic Regression Classifier** (Python, Numpy, Pandas, Google Colab)

**January 2023 – February 2023**

* Collaborated as a Machine Learning Engineer for a 3-member team to develop a logistic regression classifier to detect bankruptcy achieving an accuracy rate of 98%.
* Acquired, preprocessed, and normalized data using Numpy and Pandas dataframes, ensuring accurate model performance.
* Implemented Gradient Descent, Stochastic Gradient Descent (SGD) and Mini Batch Gradient Descent from scratch, optimizing the model's performance and reducing computational time.
* Developed fit and predict functions to train and test the model, allowing for efficient testing and evaluation of the model's accuracy.
* Conducted rigorous testing and validation to ensure the model's robustness and reliability in real-world scenarios.

**Soccer World Cup Database** (Java, db2, JDBC) **January 2023 – May 2023**

* Collaborated as a Data Engineer for a 2-member team with weekly SCRUM meetings and following AGILE methodologies to develop a Soccer World Cup database.
* Designed and implemented the architecture and schema for the database, ensuring data integrity and scalability.
* Developed a simple user-friendly UI to query match info, player info, and manage lineup efficiently.
* Automated table creation and population using Bash scripts, reducing manual errors, and saving time for future database updates.
* Optimized the database performance by fine-tuning queries and indexing, resulting in faster query response time and improved user experience.

**PourDecisions** (JavaScript, React.js, HTML, CSS, MongoDB, Figma) **January 2022 – May 2022**

* Collaborated as a Full Stack Developer and Software Tester on a 10-member team with weekly SCRUM meetings and following AGILE methodologies to develop an online drink sharing platform.
* Designed and implemented the frontend for Create Account page and User Profile page, resulting in a more intuitive and engaging user experience.
* Developed REST APIs for creating and updating user accounts, providing secure and reliable backend functionality.
* Ensured platform quality by writing and executing Cucumber acceptance tests and user stories with Gherkin syntax, resulting in the identification, and fixing of several critical bugs.
* Collaborated with the UX team to create wireframes and prototypes in Figma, enabling seamless communication and efficient design iterations.

**Online Library Website** (Java, JavaScript, Android Studio, Vue.js, HTML, CSS, PostgreSQL)

**September 2021 – December 2021**

* Led testing efforts and collaborated as a Full Stack Developer on a 6-member team with weekly SCRUM meetings and following AGILE methodologies to develop an online library management system.
* Implemented the frontend for View Borrowed Items page and Manage Librarian page, enabling customers to view their borrowed items and facilitate employment for the head librarian.
* Developed REST APIs for creating, deleting, and updating head librarians and librarians, streamlining employment management.
* Designed and executed persistence layer testing, unit tests, and integration tests to ensure system stability and reliability.

**Online CarShop Website** (Java, JavaScript, Spring, Umple, HTML, CSS)

**January 2021 – May 2021**

* Collaborated as a Full Stack Developer on a 6-member team with weekly SCRUM meetings and following AGILE methodologies to develop an online platform for scheduling/managing car garage appointments.
* Developed the frontend for viewing and managing appointments page, resulting in a streamlined process for sales representatives and a better user experience for customers.
* Implemented RESTful APIs using Spring for scheduling, canceling, and updating appointments, improving customer satisfaction.
* Designed Cucumber acceptance tests with Java step definitions to ensure that the appointment management features met user needs and were free of defects.

**WORK EXPERIENCE**

**AI French Transcriber May 2022 – September 2022 (4 months)**

*LXT AI Inc (Mississauga, ON, Canada)*

* Transcribed over 150,000 audio utterances in French to aid in the development and enhancement of voice recognition for major tech companies, resulting in a 96% accuracy rate.
* Assisted in the development and training of voice recognition by providing accurate and timely transcriptions, consistently maintaining a speed between 300 and 350 utterances per hour.
* Transcribed telephonic conversations in French to improve the voice recognition during phone calls for major banking companies, resulting in a 94% accuracy rate.