

Vy-Kha Huynh

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EDUCATION

McGill University

Montreal, QC, Canada

September 2020 – April 2024

- 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-Classifer (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.