

Trang Le

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Graduate with a strong background in software engineering and data science. Experienced in data analysis, machine learning and front-end web development seeking an opportunity as a software engineer.

Education

University of St. Thomas M.S. in Software Engineering	2017 - 2020
Hue University, Vietnam B.A. in Applied Linguistics	2011 - 2015

Skills

Programming languages: Python, Javascript, Java, SQL, HTML/CSS.

Tools/ Libraries/ Technologies: React, ReactDOM, JSX, Node.js, Flask, Keras, Tensorflow, AWS, Docker, Google Cloud Platform, Jupyter Notebook, RStudio, Eclipse, Pyspark, ElasticSearch, Web Scraping, Data Scraping, Numpy, Pandas, Scikit-learn, Microsoft Office Suite, Visual Studio Code.

Databases: MySQL, Spark SQL, HDFS, MongoDB.

Work Experience

Data Analyst Intern - FFEN **FEB - JUN 2020**

- Conducted data entry and analysis using Microsoft Excel to create food shelf specific food sourcing analysis reports, identify key metrics and craft underlying structures from data.
- Developed recommendations that promote more fiscally responsible operations and a healthy, high quality product mix for food shelf customers by using a variety of data evaluation tools and techniques.

Graduate Research Assistant / Teaching Assistant **FEB - AUG 2020**

- Created algorithms to identify complicated software using deep learning and ConvNet and demonstrate the impact that complicated software has on software development.
 - Worked on parsing classifier using NLTK and Machine Learning, and created an identifier to test source code using ML.
 - Ran online sessions of summer class for SEIS 610 - Software Engineering, which covered software engineering concepts, techniques, and methodologies.
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Related Experience

Cancer Predictor App/ Python - <https://cancer-predictor-app.herokuapp.com/> **MAY 2020**

- Helped physicians correctly predict whether or not a suspicious lesion seen in a mammogram is benign or malignant, in order to apply appropriate treating methods.
- Performed a variety of **data analysis** techniques for **feature engineering**. Built models with **Machine Learning** algorithms: **SVM, Logistic Regression, Naive Bayes, KNN, XGBoost, Random Forest, and Decision Tree**.
- Employed **GridSearchCV** for every model to search for **hyper-parameters optimization** and evaluated models using **KFold cross validation**. Achieved **90% accuracy**. Deployed the application using **Flask** on **Heroku** platform. Performed an **end-to-end lifecycle** of Machine Learning development project.

Sentiment Detector App/ Python - <https://sentiment-detector-app.herokuapp.com/> **MARCH 2020**

- Implemented a **sentiment analysis** model to identify whether a given statement is of contextually positive or negative sentiment.
- Employed **NLTK** and other libraries for **feature engineering in text**, and **Word Embeddings** for features representation. Applied **Naive Bayes, Logistic Regression, Conv1D** defined model, **RNN** in **Tensorflow**, and **LSTM** in **Keras** for this sequence classification problem.

- Obtained an **accuracy of 85%** and deployed the application with the end point **REST API** for end users.

Event Designer/ Java/ Group Project

JAN 2020

- Connected clients to decor choices that match their personal style and budget to a florist that could provide the client's unique vision to their event.
 - Utilizing **Test-Driven Development** and several design patterns and design principles. Applied **Java 8** and **Java Swing** for GUI.
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Publications

- **Le, T.Q.T.**, Tran, T.K., and Rege, M. "Dynamic image for micro-expression on region-based framework." Proceedings of the 2020 IEEE 21st International Conference on Information Reuse and Integration for Data Science (IRI). IEEE, 2020. [\[link\]](#)
 - Dorin, M.A., **Le, T.Q.T.**, Kolakaluri, R., and Montenegro, S., (accepted) "Using machine learning image recognition for code reviews." Computer Science & Information Technology (2020).
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Certificate

Deep Learning Specialization, a 5-course specialization, Coursera

JUN 2019

- Learned foundations of Deep Learning and Neural Networks. Worked on case studies from healthcare, autonomous driving, sign language reading, music generation, and natural language processing.
- Courses: Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyper-parameter tuning, regularization and optimization; Structuring Machine Learning Projects; Convolutional Neural Networks; Sequence Models.