Thanh Le

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EDUCATION

Master of Science in Computer Science, University of Houston - Downtown

August 2023 - Expected December 2024

- · Specialized in Machine Learning and Artificial Intelligence
- GPA: 3.7
- Relevant Coursework: Advanced AI, Ethics of AI, Advanced Machine Learning, Deep Learning, Statistics for Science, Robotics.

AWS Certified Solutions Architect - Associate (AWS SAA - C03)

December 2023

Issuing Authority: Amazon Web Services (AWS)

Bachelor of Science in Computer Science, University of Houston

August 2019 - May 2021

- Minor in Data Science and Mathematics of Science
- GPA: 3.7
- Relevant Coursework: Data Science, Advanced Data Science, Statistics of Science, Advanced Data Structures and Algorithms.

HIGHLIGHT PROJECTS

Machine Translation English to French

- Built an application to translate sentences from English to French.
- Efficiently processed and analyzed a large dataset (1GB) of parallel English and French sentences using Pandas, Sklearn, NLP techniques such as tokenized, word2vec.
- Designed and implemented a Seq2Seq with **Long-Short-Term Memory** and the transformation of a sequence of sentences with Encoder in English and Decoder in French to train models achieving accuracy 90%.

Hierarchical automated machine learning (AutoML) - McMurray/Wabiskaw Oil Sands Deposit

- Collaborated with teammates to develop Machine Learning models and deployed to AWS Cloud for predicting elemental composition in oil sands, aiding mineral extraction processes.
- Pre-processed and analyzed 3000 well-logged files using Python, Pandas, Scikit-learn, Seaborn, Matplotlib, and H2O AutoML.
- Experimented with Classification, Regression, XGBoost, and AutoML techniques.
- Improved prediction accuracy from 85% to 96%, potentially reducing extraction costs and environmental impact.

EXPERIENCE

Software Engineer Intern ISODS

October 2023 - January 2024

Massachusetts

- Spearheaded abnormal detection applications with Django, Bootstrap combined with AWS Cloud Services such as Beanstalk, Lambda. Kubernetes.
- Successfully deployed an advanced Al-based proctoring system, which streamlined the exam monitoring process by use of YOLOv8
 object detection, combined with TensorFlow and OpenCV, revolutionized the way examinations were supervised online.
- Pre-processed and utilized the custom datasets of 2000 images, achieving an accuracy of 85%.
- Integrated Caffe and DNN models to enhance accuracy, demonstrating proficiency in diverse frameworks and libraries.
- Reduced manual monitoring by 40%, cutting operational costs, and decreased cheating incidents by 50%, boosting the integrity and trustworthiness of online examinations.

Software Engineering and Programming Specialist

September 2022 - September 2023

BAYLOR COLLEGE OF MEDICINE• Translated user's stories into code functionalities and delivered in-house applications.

Houston, TX

- Developed full-stack web applications with a tech stack comprising C#, JavaScript, CSS, Bootstrap, ASP.NET, SQL Server, and Oracle.
- Built an Al-powered healthcare analytics platform, improving patient/doctor analyses and medical prediction accuracy by 60%, and reducing analysis time by 75% using Machine Learning techniques, Supervised and Unsupervised Learning, Power BI, and Tableau.
- Successfully migrated an old system from .NET to a newer version of ASP.NET, achieving a 60% reduction in delay time when processing large datasets.

Software Engineer I

August 2021 - September 2022

Houston, TX

ACCREDO PACKAGING INC.

- Led the development of an automation application using Python frameworks, Flask, Django, Bootstrap, PostgreSQL, OpenCV, and TensorFlow to streamline production processes and defect detection.
- Achieved a 10% reduction in material waste and a 15% increase in production efficiency.

ACADEMIC EXPERIENCE

Graduate Teaching Assistant

January 2024 - Present

University of Houston - Downtown

 Tutor and support undergraduate students in mathematics, probability and statistics for science, Python data structures and algorithms, data science.

SKILLS

Python (Proficient), C# (Intermediate Mid), Prolog AI Programming, JavaScript, Django, Flask, ASP. NET, AWS Cloud, Machine Learning - AI libraries, Linux, Kubernetes, Docker, Jenkins.