

Long Nguyen

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Motivated and recent Computer Engineering graduate equipped with a solid foundation in and data engineering and software design. I am eager to leverage my broad educational background, coupled with exceptional analytical, technical, and programming skills, to excel in a data engineer role.

EDUCATION

York University

B.Eng., Spec. Hons. Computer Engineering

Toronto, ON

Sep 2021 - May 2023

- **Relevant Courses:** Computer Vision, Machine Learning and Pattern Recognition, Design and Analysis of Algorithms, Introduction to Database Systems, Fundamentals of Data Structures, Object Oriented Programming, Software Engineering Requirements

EXPERIENCE

Software Engineer Intern

Assure Global Group

May 2021 – Jan 2023

Toronto, ON

- Developed and implemented multiple front-end web applications using HTML/CSS and TypeScript
- Utilized back-end API calls to efficiently format and retrieve data for front-end web applications
- Collaborated with UI/UX designers and managers to determine the most suitable design system for each client
- Developed comprehensive test cases for a full-stack web application utilizing Node.js, JavaScript, TypeScript, and MySQL, resulting in a 95% test coverage rate

PROJECTS

RANSAC Based Image Stitching | *Python, PyTorch, NumPy, Kornia, Computer Vision*

Mar 2023

- Given the left and right picture of a scene, create a panorama picture
- Applied NumPy, Kornia, PyTorch to apply RANSAC-based image stitching
- Derived the transformation matrix to create panorama picture and using `skimage.transform.ProjectiveTransform` and `skimage.transform.warp` together

Seam Carving | *Python, PyTorch, NumPy, Kornia, Computer Vision*

Feb 2023

- Developed a Seam Carving algorithm to resize pictures while preserving the important image content
- Removed the necessary horizontal and vertical seams and returns the resized image
- Implemented a Sobel filter in Kornia's `SpatialGradient` and applied the concepts of Dynamic Programming, matrix scoring

Topic Modelling Project | *Python, NLTK*

Dec 2022

- Extracted Google Reviews from a list of similar and competitor applications and pre-process it
- Applied Sentiment Analysis to evaluate and understand the customers' sentiment
- Implemented LDA for Topic Modelling to group data to certain topics to suggest necessary improvements to your application

Project Red Wine Quality | *Python*

Aug 2022

- Constructed histograms to find the distribution of data
- Applied Regression models to evaluate the model accuracy and compare it between Random Forest and Decision Tree
- Plotted the Classification Model Accuracy and Training and Validation Loss to determine what are the important attributes in wine quality

Wholesale Customers Data | *Python*

Aug 2022

- Compared Feature Scaling and MinMax Scaler using the Wholesale customer dataset
- Split the data into train, validation, and test set and evaluate the data using K-Means Clustering, PCA, and give the accuracy of 91% using XGBoost Classifier

Everyday HSA CRM, Vyniverse CRM | *TypeScript, JSON, REST API, HTML/CSS, Angular*

Jul 2022

- Developed front-end tasks for customer service and NFT gaming manager website for Assure Global Group
- Made back-end API calls to format the data to the front-end websites
- Collaborated closely with UI/UX designers to ensure the web template aligned with modern design principles and trends

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, HTML/CSS, Python, C/C++, MySQL, MongoDB

Frameworks: Angular, React, Node.js, Java Spring, JUnit, Jupyter, CircleCI, AWS

Libraries: Panda, NumPy, PyTorch, Matplotlib, Seaborn, OpenCV, Kornia, Scikit Learn, TensorFlow, NLTK