

# Long Nguyen

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## EDUCATION

### York University

B.Eng., Spec. Hons. Computer Engineering

Toronto, ON

Sep 2021 - May 2023

## EXPERIENCE

### Full Stack Developer

Sep. 2023 – Apr. 2024

Collab Dentistry Inc.

Concord, ON

- Delivered and implemented an Airbnb-style application connecting Independent Dental Hygienists to empty operatories on different Dental Offices to maximize the capacity of dental operatories using **Flutter, Python, SQL/NoSQL Databases**.
- Integrated Stripe's **API** to manage payment informations, processing over 50 transactions per day.
- Significantly reduced front-end development time, from over 80 hours to 40 hours using a low-code platform for **Flutter**.
- Utilized **JavaScript** to format data on CRM & Admin systems, enhancing data presentation and user interaction
- Designed Collab Dentistry Inc.'s main website using **WordPress**
- Leveraged Knowledge: JavaScript, Flutter, SQL, Firebase, Python, RestAPI, WordPress**

### Software Engineer Intern

May 2021 – Jan 2023

Assure Global Group

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:** Python, Java, JavaScript, TypeScript, HTML/CSS, 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