



Nha Tran



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EDUCATION

Florida Atlantic University (FAU)

Boca Raton, FL

- Master of Science in Artificial Intelligence | GPA: 4.0/4.0
- Bachelor of Science in Computer Science | GPA: 3.96/4.0

December 2023

January 2022

TECHNICAL SKILLS

- **Programming Languages:** Python (Pandas, Numpy, Scikit-learn, Keras, TensorFlow, Flask, Matplotlib, Plotly, Seaborn) | SQL | C/C++ | R | HTML/CSS/JavaScript | PHP
- **Tools:** GitHub | GitLab | Microsoft Office (Word, PowerPoint, Excel, Teams, SharePoint) | Visual Studio Code | MySQL | Anaconda | Jupyter Notebooks | Google Colab | Elasticsearch | Docker | Kubernetes | Firebase | Postman | WEKA | R Studio | Tableau | Power BI | Google Data Studio | Code Composer Studio | MAMP | phpMyAdmin | CloudAnalyst | Balsalmiq | Jira
- **Certificates:** Data Science Certificate (FAU) | Big Data Analytics Certificate (FAU)

WORK EXPERIENCE

Graduate Research Assistant – FAU College of Engineering and Computer Science

Boca Raton, FL

Python (Pandas, Numpy, Matplotlib) | Jupyter Notebook (Cloud-based) | HPC | Google Drive

January 2023 – Present

- Completed training on Responsible Conduct of Research (RCR) and became a registered researcher of the All of Us Research Program (National Institute of Health)
- Perform in-depth research for 4 ongoing projects under the guidance of medical doctors and professors using AI techniques to explore the patient's data and understand the correlation or patterns of a specific medical condition.

Data Analyst Intern – FAU Assessments & Research

Boca Raton, FL

Microsoft Office (Word, Excel, Teams, SharePoint) | Power BI

July 2022 – October 2022

- Created tools for tracking, analyzing, summarizing, interpreting, and reporting relevant statistics using MS Excel and Power BI for data such as surveys, census data, etc.
- Participated in creating, editing, and consulting on strategic planning for various departments within DSAEM

Data Scientist Intern – Pet Healthcare Innovations from FAU Tech Runway

Boca Raton, FL

Microsoft Office (Word, Excel)

August 2022 – January 2023

- Assisted start-up in creating, analyzing, summarizing, and reporting relevant statistics
- Analyzed surveys obtained from veterinary surgeons to gain meaningful insights into a prototype to improve the final product and differentiate the product from similar offerings

Certified Math Tutor – Broward College

Fort Lauderdale, FL

On-site Tutoring | Online Tutoring (Tutor.com)

January 2018 – June 2021

- Tutored students in advanced Mathematics and general study assistance
- Hosted group tutoring sessions, study sessions, one-one tutoring, and exam reviews
- Completed CRLA National Tutor Training

PROJECT EXPERIENCE (Academic and personal projects)

CleanAI (Waste Classification API) – Software Engineering (Summer 2023)

Python | Flask | TensorFlow | HTML/CSS/JavaScript | Elasticsearch | Firebase | Kubernetes | Docker | GitLab | GitHub | Postman

- Implemented an end-to-end project that integrates with data science to create a user-friendly interface for waste image uploads, viewing waste classification results, and accessing waste type information, as well as drop-off locations based on zip code for recycling properly.

AR via QR code – Engineering Design (Spring 2022)

HTML/CSS/JavaScript | SQL | PHP | Three.js | Visual Studio Code | Microsoft Teams

- Created a web application called ARrViewer where users can import 3D models, add 3D text, and view their published work by scanning a QR code using their mobile device

CyberHealth – Principles of Software Engineering (Fall 2021)

HTML/CSS/JavaScript | SQL | PHP | CRUD | Visual Studio Code | Jira | Agile Development

- Created an online health monitoring web application where patients with COVID-19 symptoms can upload their medical history in order to receive treatment from certified doctors

Hybrid Cryptographic scheme using El Gamal, RSA, and DES - Practical Aspects of Modern Cryptography (Spring 2023)

C++ | Python | Visual Code Studio | Jupyter Notebooks

- Implemented a hybrid encryption that combines the efficiency of symmetric encryption with convenience of asymmetric encryption for a minimum of 256 bits

Image Classification – Deep Learning (Fall 2022)

Python | Google Colab | Jupyter Notebooks | Numpy | Keras | Scikit-learn | TensorFlow | Matplotlib

- Classified handwritten digits using MNIST dataset and neural network
- Designed a ten-class classifier for CIFAR-10 dataset using FC neural network and Convolutional Neural Network (CNN)
- Designed a multi-layer neural network for face classification using Olivetti face dataset (from AT&T)
- Trained a dense neural network classifiers for classifying dog and cat using dogscat1000 dataset

Natural Language Processing

Python | WEKA | nltk | spaCy | Vader | TextBlob | AWS Comprehend | boto3 | Scikit-learn

- Explored text processing using nltk and spaCy
- Implemented Naïve Bayes Text Classification for spam detection using different classification methods and preprocessing techniques to evaluate their performances
- Conducted sentiment analysis using AWS Comprehend, TextBlob, and Vader

Machine Learning

Python | Jupyter Notebooks | Pandas | Numpy | Matplotlib | Scikit-learn | TensorFlow | Kaggle

- Built classifiers from scratch using iris dataset and diabetes dataset
- Designed a classifier for loan eligibility prediction and understand the factors affecting the loan approval
- Designed a content-based recommendation system from scratch using a movie dataset from Netflix TV Shows and Movies dataset on Kaggle
- Analyzed the churn rate and uncover the factors that contribute to it to predict IBM HR Analytics Employee Attrition
- Conducted web scraping with exploratory data analysis (EDA)

Data Visualization

Tableau | Google Data Studio

- Institutional Characteristics of Colleges, Universities, and Technical and Vocational Postsecondary Institutions in the United States (2013-2014), Employee Performance, Hotel Revenue Analysis

HONORS & INVOLVEMENT

FAU NSF-NRT: NSF-NRT: A Graduate Traineeship in Data Science Technologies

Fall 22 – Summer 23

- Participate in an NSF-funded program to explore experimental learning intensive convergence activities, which also include transdisciplinary research projects

FAU NSF STEM Scholars Program

Fall 22 – Fall 23

- Participate in an NSF-funded program to introduce academically distinguished students to careers and education in Artificial Intelligence