

UYEN NGUYEN

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Education

University of South Florida

Bachelor's Degree in Statistics, Economics. GPA: **3.95/4.00**

Expected Graduation: **December 2025**

Tampa, FL

Work Experience

Data Science Intern

May 2025 - August 2025

Dell Technologies

Round Rock, TX

- Researched and implemented advanced **computer vision** techniques (CNNs, YOLO, OCR models) in **Python** to build an image manipulation detection system, with an estimated **\$2M** annual saving from fraud-related losses
- Developed **deep learning** models including **Autoencoder** and **InceptionV3** in **PyTorch**; designed feature extraction methods and explainability tools (**visual heatmaps**) to validate image forensics findings
- Partnered with fraud analysts, project managers and product team to present to leadership and deploy solutions, cutting **7,000** hours of manual review time annually

Data Analyst Intern

June 2024 - May 2025

ComEd (An Exelon Company) | largest utility company in the U.S.

Joliet, IL

- Designed employee productivity dashboards using **Power BI (Power Query, Star Schema)** to track work performance, worked with systems managers for data integrity and governance, saving **\$80,000** in logistic costs
- Identified top employees for business restructuring by developing **SQL** queries in **Microsoft Fabric** to manipulate **100,000** records from 3 datasets, optimizing operational efficiency by **35%**
- Built approval workflows in **Power Automate** to process **10,000** system access requests automatically, eliminating manual approval tasks and reducing **90%** human involvement

Research Assistant

March 2023 - Present

SPACHEs Lab, University of South Florida | computational health informatics lab

Tampa, FL

- Collaborated with **5 researchers** to develop **Stepwise** and **Lasso Regression** models for Obstructive Sleep Apnea (OSA) detection, expediting research timeline by **30%** compared to target
- Performed feature engineering, data processing and analysis (**PCA, K-means Clustering**) to determine OSA patient cohort from Wisconsin Sleep Database using **Python (pandas, scikit-learn)**
- Wrote literature review and manuscript for **research publication** on OSA diagnosis, evaluated and summarized data methodology and research findings on sleep disorders from **100+** publications

Data Analyst Intern

August 2023 - May 2024

Crosstree Capital Partners | boutique investment banking firm

Tampa, FL

- Cleaned and analyzed **20,000** data records regarding Health Science industry in **Excel (Pivot Tables)** to create **20** summary reports, directing company outreach marketing strategies, attracting **100** new customers
- Conducted analysis on operational metrics and service provisions of **3000** clinical research companies, delivered insights for executives to advise **15** clients on mergers and acquisitions, yielding **\$100,000** in revenue

Leadership

Association for Computing Machinery (ACM)

October 2022 - May 2025

Secretary, Marketing Chair, Advisory Board mentor

University of South Florida

- Led a team of **5** to conduct marketing campaigns to resolve workshop low interaction and attendance rate, analyzed root causes and potential solutions using **Excel**, raising club membership by **40%** and event attendance by **1.6x**
- Managed event logistics of **100+** workshops with a total of **3000+** attendants, represented ACM at **35** professional events, coordinated marketing and operation teams to ensure smooth event collaboration

Projects

Customer Transaction Fraud Detection

February 2024 - May 2024

- Trained **XGBoost** model in Jupyter Notebook with a dataset of **1,000,000** e-commerce transactions for fraud detection
- Applied data cleaning, cross validation and hyperparameter tuning to improve model performance by **30%**
- Visualized fraud and spending patterns using **matplotlib** and **seaborn** for developing risk management strategies and optimizing customer experience, minimizing business financial losses by **35%**

Technical Skills

Languages: Python (numpy, pandas, matplotlib, scikit-learn, opencv), PyTorch, SQL, R

Tools: Azure, Docker, Kubernetes, Power BI, SQL Server, Tableau, Excel, Power Automate, PowerPoint

Techniques: Deep Learning, Computer Vision, LLMs, Statistical Testing, Data Analysis, Machine Learning

Interests: Painting, Rock Climbing, Pickleball, Singing, Karaoke, Cooking, Journaling, Traveling