

Gina Nguyen

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EDUCATION

Colby College, Waterville, ME, USA, Bachelor's Degree	Graduating May 2026
Major: Computer Science & Economics Minor: Statistics	Major GPA: 3.95/4.0
Relevant Coursework: Statistical Modeling, Probability, Advanced Machine Learning, Neural Networks, Interpretable AI, Computer Vision, Financial Technology	

WORK EXPERIENCE

Data Science Intern	June - September 2025
<u>VPBank</u>	
<ul style="list-style-type: none">Analyzed and processed 5M+ customer records to develop a deep-learning Credit Card Approval model, predicting profiles with high-likelihood of successful registration and fund disbursement, boosting the estimated approvals by 10%Conducted exploratory data analysis (EDA) and feature engineering utilizing SQL and Big Data Query tools, trained advanced AI techniques—including DeepGBM and SAINT— achieving 7.5% lift in prediction accuracy, and deployed the optimal solution on AWS SageMakerDesigned presentation and delivered project defense using PowerBI to 10+ executive business analysts and stakeholdersResearched advanced applications such as AI-based risk scoring and fraud detection, collaborating with senior data scientists	
Data Analytics Intern	June 2024 - current
<u>Greentech Vina</u>	
<ul style="list-style-type: none">Consolidated and engineered 10M+ international trade records across 90+ countries on Ziploc and Zipper bag products leveraging Python and Databricks, enabling scalable data pipelines for distribution optimization and market forecasting.Performed trend and pattern analysis with Tableau dashboards to identify anomalies, price shifts and key customer segments for data-driven decision-making, contributing to a projected 15% increase in engagement ratesExplored reinforcement learning (Markov Decision Processes) to simulate supply chain resolutions, improving predictive accuracy for product demand by 12%.	
AI Engineering Intern	December - February 2024
<u>Vietnam Academy of Science and Technology</u>	
<ul style="list-style-type: none">Architected a proof-of-concept computer vision pipeline to detect track pedestrians and vehicles in real-time using YOLOv8 implemented in Python, OpenCV and PyTorch, reaching 79% mAP@50Integrated multi-object tracking (DeepSORT and BoT-SORT) to maintain consistent object IDs under occlusion and dense crowdsDeveloped an analytics layer to compute pedestrian counts, traffic flow ratios, and density heatmaps for smart-city applications	
Math Teaching Assistant	September 2023 - current
<u>Colby College</u>	
<ul style="list-style-type: none">Facilitated study sessions for 50+ students, effectively clarifying complex concepts in Linear Algebra and Calculus IICoordinated with faculty to grade and provide detailed, constructive feedback, ensuring accurate academic evaluation	

PROJECTS

FutureProof: Bankruptcy Detection Github	December 2024
<ul style="list-style-type: none">Constructed predictive models to estimate bankruptcy risk for ~7,000 companies using financial performance metricsApplied scikit-learn, PCA, Seaborn, and SHAP to conduct EDA, feature engineering, data and results visualization, model behavior interpretation and feature importanceOptimized Logistic Regression and tree-based models (XGBoost, Random Forest, SVM, and LightGBM), achieving >90% precisionsDeployed an interactive dashboard leveraging Streamlit to predict bankruptcy and highlight top 5 financial risk indicators	
ColbyMerchandise: Campus e-commerce platform Github	September - December 2025
<ul style="list-style-type: none">Built a full-stack Flask marketplace for campus community with a team of 4 software engineers, delivering 17+ production-ready features including authentication, real-time chat, order workflows, browsing and semantic searchUtilized HTML, CSS and Javascript for frontend and established a CI/CD pipeline with automated testing by pytest to achieve 95%+ branch coverage before deploying to HerokuLeveraged RESTful APIs backed by dual-database setup, involving SQLite for local development and PostgreSQL for deployment	

TECHNICAL SKILLS & INTERESTS

Technical Skills: Python, (SciPy, Pandas, NumPy, SHAP), SQL (Hive, Spark), R, AWS

Data & Statistical Tools: Predictive Analytics, Big Data Query, Tableau, PowerBI, Databricks, Snowflake

Machine Learning: PyTorch, Tensorflow, PCA, SVM, Model Evaluation, Deep Learning, Reinforcement Learning