Gina Nguyen

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Authorized to work in US (OPT - 3 years for STEM)

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

TECHNICAL SKILLS & INTERESTS

Technical Skills: Python, (SciPy, Pandas, NumPy, SHAP), SQL, 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

WORK EXPERIENCE

Data Science Intern **06/2025 - 09/2025**

VP Bank *Hanoi, Vietnam*

- 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 SageMaker**
- Designed presentation and delivered project defense using **PowerBI** to **10+** executive business analysts and stakeholders

Data Analytics Intern **06/2024 - 12/2025**

Greentech Vina *(Remote) Waterville, ME*

- 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 customer engagement
- Explored **reinforcement learning** (Markov Decision Processes) to simulate supply chain resolutions, improving predictive accuracy for product demand by **12%**.

AI Engineering Intern **12/2023 - 1/ 2024**

Vietnam Academy of Science and Technology *(Remote) Waterville, ME*

- Architected a proof-of-concept **computer vision pipeline** to detect track pedestrian and vehicle flow in real-time using YOLOv8 implemented in **Python, OpenCV** and **PyTorch**, reaching **79%** mAP@50
- Integrated multi-object tracking algorithm to maintain consistent object IDs under occlusion and dense crowds
- Developed an **analytics layer** to compute pedestrian counts, traffic flow ratios, and density heatmaps for smart-city applications

Math Teaching Assistant **09/2023 - current**

Colby College *Waterville, ME*

- Facilitated study sessions and grading for **50+** students, effectively clarifying complex concepts in Linear Algebra and Calculus II
- Augment assignment pass rate by **15%** and cutting response time to student questions from 40 to ***12*** hours

PROJECTS

ColbyMerchandise: Campus e-commerce platform | Github ***09/2025 - 12/2025***

- 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 search
- Utilized **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 Heroku
- Leveraged **RESTful APIs** backed by dual-database setup, involving **SQLite** for local development and **PostgreSQL** for deployment

FutureProof: Bankruptcy Detection | Github ***12/2024 - 01/2025***

- Constructed predictive models to estimate bankruptcy risk for **~7,000** companies using financial performance metrics
- Applied **scikit-learn, PCA, Seaborn**, and **SHAP** to conduct EDA, feature engineering, data and results visualization, model behavior interpretation and feature importance
- Optimized **Logistic Regression** and **tree-based models** (XGBoost, Random Forest, SVM, and LightGBM), achieving **>90%** precisions
- Deployed an interactive dashboard leveraging **Streamlit** to predict bankruptcy and highlight **top 5** financial risk indicators