Ninh Giang 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: 3.91/4.0**
*Relevant Coursework***:** Data Analysis & Visualization, Statistical Modeling, Interpretable AI, Probability, Neural Networks, Financial Technology, Computer Vision, Software Engineering

WORK EXPERIENCE

VPBank   **June - September 2025**
Data Science Intern
- 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
- Researched advanced applications such as AI-driven risk scoring and fraud detection, collaborating with senior data scientists

Greentech Vina   **June - September 2024**
Data Analyst
- Consolidated and refined **10M+** international trade records between Vietnam and **90+** other countries on Ziploc and Zipper bag products, leveraging **Excel** and **Python** to optimize product distribution and forecast market tendencies
- 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 rates
- Streamlined cross-department collaboration between analytics, sales, and marketing teams by redesigning reporting pipelines, cutting manual analysis, and improving insight turnaround time by **30%**

Colby College   **September 2023 - current**
Head of Math Teaching Assistant
- Facilitated study sessions for **50+** students, effectively clarifying complex concepts in Linear Algebra and Calculus II
- Coordinated with faculty to grade and provide detailed, constructive feedback, ensuring accurate academic evaluation

PROJECTS

FutureProof: Bankruptcy Detection | [Github](#)   *December 2024*
- Constructed predictive models to estimate bankruptcy risk for **~7,000** companies using financial performance metrics
- Applied **Joblib, Seaborn, scikit-learn**, 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 **ROC AUC >0.90**
- Deployed an interactive dashboard leveraging **Streamlit** to predict bankruptcy and highlight **top 5** financial risk indicators

ColbyMerchandise: Campus e-commerce platform | [Github](#)   *September - December 2025*
- Built and deployed a full-stack **Flask** marketplace for a 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 outline 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
- Implemented intelligent search using **SentenceTransformer embeddings** to enable meaning-based item discovery, improving search relevance beyond keyword matching

CityFlow AI: Pedestrian Vehicle Movement Analytics | [Github](#)   *November 2025*
- Architected a real-time **computer vision pipeline** to detect track pedestrians and vehicles using **YOLOv8**, achieving **79% mAP@50**
- Integrated multi-object tracking (**DeepSORT** and **BoT-SORT**) 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

TECHNICAL SKILLS & INTERESTS

Technical Skills: Python, Pandas, NumPy, TensorFlow, SHAP, SQL (Hive, Spark), R, AWS, Snowflake
Data & Statistical Tools: Logistic Regression, Predictive Analytics, Big Data Query, Excel VBA, Tableau, PowerBI, Databricks
Machine Learning & AI: PyTorch, Kera, Clustering, PCA, Model Evaluation, Neural Networks, Deep Learning