

Ngo Nguyen Tien Hung

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Education

University of Nevada, Reno
Bachelor of Computer Science and Engineering

Expected Graduation: May 2028
Overall GPA: 3.92

Professional Experience

[Address Income](#) — Software Engineering Intern

January 2026 – May 2026

- Developed and benchmarked **Random Forest**, **XGBoost**, and **deep neural-network** models for rental-price prediction, reducing MAE from approximately **\$200 with the baseline model to \$118** with the final neural-network model
- Deployed the selected **PyTorch** model through **AWS SAM** to power real-time property-value estimates, integrating predictions with an external rental-pricing API in a production application.
- Designed and implemented an automated alert platform using **PostgreSQL**, **Golang (GIN)**, **AWS Lambda**, and the **Resend API** to deliver scheduled notifications and event tracking, supporting live production workflows and improving user engagement.
- Developed reusable **React TypeScript** UI components and redesigned the company onboarding flow, delivering a production experience used by **all users** while streamlining edge-case handling and enabling adoption across multiple product pages

Projects

NVDA Short-Horizon Price Movement Predictor

Spring 2026 – Present

Python, **XGBoost**, **Scikit-learn**, **FastAPI**

End-to-end supervised time-series ML system with walk-forward evaluation and live signal generation

- Built supervised XGBoost classifiers for short-horizon NVDA trend and downside-risk prediction using walk-forward yearly validation, TimeSeriesSplit, and per-fold hyperparameter tuning to reduce look-ahead bias.
- Engineered 40+ market, volatility, sector, and fundamental features and conducted feature ablation studies to measure predictive lift across feature tiers.
- Combined dual-model predictions using confidence-gated decision rules; in a continuous 2024–2026 backtest, the best strategy grew \$1,000 to **\$5,293 versus \$4,306 for buy-and-hold**, while reducing maximum drawdown from **36.9% to 34.7%**

[WorkTemply – AI Writing Content Generations](#)

Fall 2025 – January 2026

*Full-stack SaaS platform built with **Next.js** (frontend + backend), **MongoDB**, and deployed on Vercel*

- Built a production-ready SaaS with user authentication (**NextAuth**), **Paddle** billing integration, and customer email handling through **Resend**
- Developed 30+ AI-powered writing workflows alongside SEO-optimized landing pages and public template systems focused on discoverability and performance

Technical Skills

- Programming languages: *C, C++, JavaScript, TypeScript, Python, HTML/CSS, SQL*
- Frameworks & Database: *React, Next.js, Node.js, GIN (Go), MongoDB, PostgreSQL, AWS, Git/GitHub*
- AI/ML: *PyTorch, Scikit-Learn, NumPy, Pandas*
- Others: *Unity (2D/3D), Linux, CI/CD*