

Austin Nguyen

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<https://ausnguy.github.io/Austin-Nguyen-Portfolio/>

EDUCATION

University of Houston, C. T. Bauer College of Business

May 2027

B.B.A: Management Information Systems

GPA: 3.95

Dean's List: Fall 2023 – Spring 2025

Relevant coursework: Database Management Systems, Systems Analysis & Design, Business Statistics

Awards: Lockheed Martin Vocational Scholarship Recipient | George Foundation Scholarship

SKILLS

Languages: Python (NumPy, Pandas, PyTorch, Matplotlib), SQL, Java

Data Visualization: Power BI, Tableau, Excel (Pivot Tables, VLOOKUP)

Tools & Concepts: Git, Jupyter Notebook, Linux/Unix, SLURM (HPC), Agile, Scrum, Snowflake (learning)

Certifications: Scientific Programming with Python– HPE (2025)

ACADEMIC PROJECTS

MNIST Handwritten Digit Classifier + Live Web Demo

Jan 2026 – Present

- Built and trained a neural network in **PyTorch (Python)** to classify handwritten digits, achieving **~96–98% test accuracy** on **10,000** validation images across **70,000** total samples.
- Engineered a reproducible data preprocessing and inference pipeline for **28×28** grayscale images, enabling consistent model evaluation and deployment.
- Developed a live web demo with a canvas-based interface and a **Flask** backend to deliver real-time digit predictions.

BNY Mellon Project: AI Emissions & Efficiency Modeling

May 2025

AI Infrastructure Research

- Reduced AI energy use by up to **69%**, lowering GPU runtime by an estimated 120+ hours/month and saving **~\$15K** annually, by recommending optimization strategies.
- Improved backend efficiency by **15–20%** by engineering a **Python middleware framework** that logged compute activity at the model level and identified resource inefficiencies.

EXPERIENCE

Hewlett Packard Enterprise (HPE) — Incoming

May 2026 – Aug 2026

Data Analyst Intern – Compensation & Equity

USI Insurance Services

June 2025 – July 2025

Data Analytics Intern – Employee Benefits

- Analyzed **\$1M+** in healthcare claims data using Excel (pivot tables, filters, formulas), identifying cost-saving trends that guided strategies for **10+** employer clients.
- Improved reporting accuracy by **95%+** by performing QA checks on **5,000+** row healthcare datasets, eliminating errors and ensuring consistency for annual client renewals.
- Translated healthcare data into actionable insights used in strategy sessions for mid-sized employers' benefit decisions.

ToolAndMore

Nov 2023 – April 2024

Owner & Operator

- Generated **\$75K+** revenue in first year by launching and scaling an Amazon e-commerce business focused on power tools, hardware, and niche high-margin products.
- Achieved **30%+** profit margins by designing pricing and sourcing strategies informed by ongoing sales and ROI analysis.

ACTIVITIES & LEADERSHIP

Business Analytics Summer Summit (BASS) | Carnegie Mellon University | Tepper School of Business

May 2025

- Applied machine learning to business problems as **1 of 20** selected for a competitive data science program, developing models to support data-driven decision making.