

# Trung Nguyen

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## EDUCATION

**Northeastern University — Khoury College of Computer Sciences**

**Expected Graduation: Apr 2027**

*Bachelor of Science in Data Science*

**Honors:** 3x Dean's List

**Relevant Coursework:** Artificial Intelligence, Foundations of Data Science, Information Visualization, Intro to Databases, Advanced Programming with Data, Fundamentals of Networks, Probability & Statistics, Discrete Structures, Applied Econometrics

**Activities:** NEU Ultimate Frisbee, NEU Fencing

## PROFESSIONAL EXPERIENCE

**Summit Partners LP | MIS-Ops Engineer Intern**

Jan 2026 - Present

- Designing and implementing infrastructure automation scripts and tools to streamline IT operations across the firm's technology stack.
- Managing system configurations, contributing to network monitoring and security initiatives, and collaborating with senior engineers on cloud infrastructure projects.

**Summit Partners LP | MIS-Ops Enterprise Intern**

Jan 2025 - Jul 2025

- Configured and deployed 150+ laptops during a company-wide Dell-to-Lenovo migration, including OS installation, software provisioning, and security setup.
- Delivered IT helpdesk support across departments, diagnosing and resolving hardware/software issues; participated in daily standups and cross-functional workflows.

**No Worker Left Behind | Project Management Intern**

Jun 2024 - Sep 2024

- Secured over \$50,000 in funding by researching, writing, and submitting successful grant proposals to support organizational initiatives.
- Managed and verified data for 500+ resources — partnerships, grants, and community assets — using Excel and Python, improving knowledge hub coverage by 30%.

## PROJECTS

**Quantitative Financial Infrastructure (S&P 500, NYSE, NASDAQ)**

Dec 2025 - Present

- Architected and built a centralized data warehouse for U.S. equities using MySQL (Docker-hosted), aggregating data from yfinance, FMP, FRED API, and Massive (Polygon.io).
- Developed automated ETL pipelines in Python to ingest, clean, normalize, and store historical and real-time market data for downstream quantitative analysis.
- Designed a relational schema optimized for fast querying across tickers, time series, and economic indicators to support research and backtesting workflows.

**Strategy Backtesting Engine**

May 2026 - Present

- Built a modular Python backtesting engine for systematic equity strategies with realistic commission and slippage cost models, enforcing look-ahead safety at the strategy layer.
- Implemented swappable strategy architecture supporting rule-based (MA crossover, buy-and-hold) and fundamental-screening (earnings yield) strategies with FIFO trade matching and full analytics suite.
- Designed automated validation pipeline with 7 correctness tests covering cash conservation, cost-drag verification, and look-ahead bias enforcement across historical U.S. equity data.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, C++

**Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, Seaborn, Plotly, Altair, BeautifulSoup, Flask, Streamlit

**Developer Tools:** Git/GitHub, VS Code, PyCharm, Jupyter Notebook, DataGrip, Docker, Azure, LaTeX, Anaconda, Figma

**Databases:** MySQL, SQLAlchemy

**AI:** Claude Code, AI Agents, Codex, MCP, Generative AI

## CERTIFICATIONS

**Bloomberg Market Concepts (BMC) — Bloomberg For Education**

Completed self-paced certification covering Economic Indicators, Currencies, Fixed Income, Equities, Portfolio Management, and Bloomberg Terminal navigation.