

Minh Nguyen

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EDUCATION

Imperial College London, London

Expected '27

Master of Science, Artificial Intelligence Applications and Innovation

Relevant Modules: Mathematics for Machine Learning, Machine Learning, Deep Learning

Northeastern University, Boston

Graduated May '26

Bachelor of Science, Computer Science; Economics Minor

GPA: 3.48 — Dean's List

EXPERIENCE

Fleischhacker Medizintechnik GmbH & Co. KG (Germany)

Software Development Engineer Intern

Jan '24 - May '24

- Analysed worker performance data to design Java task-allocation algorithms, increasing daily output by 18%; built a forecasting tool giving management hourly productivity predictions.
- Built internal analysis and automation tools, including a VBA-based financial spreadsheet organizer in Excel that automated manual data transformation.
- Led pilot migrating warehouse inventory to RFID-based tracking; architected real-time bidirectional sync between Android devices and a SQL Server backend, projected to cut the semi-annual inventory count from 2 weeks to 1.
- Fixed production bugs in the company's proprietary ERP codebase and reviewed and merged teammates' code.

Joint Stock Commercial Bank for Foreign Trade of Vietnam (Vietcombank)

Cyber-Security Intern

May '23 - Jul '23

- Penetration-tested customer-facing banking applications with the red team; identified a stored XSS vulnerability enabling session hijacking and wrote the remediation report.
- Monitored live network traffic to the digital banking platform, detecting anomalies and flagging malicious IP addresses; collaborated on firewall rule changes to block them.

PROJECTS

Options Strategy Backtesting Framework

Ongoing

- Building a backtesting framework to research and evaluate options trading strategies on historical market data, focused on single-name (idiosyncratic) opportunities rather than macro positioning.
- Forward-testing selected strategies on a paper trading account to compare live behaviour against historical backtests.

WiFi Sensing Research

Ongoing

- Extracting WiFi channel state information from a consumer router using Nexmon CSI firmware on Linux.
- Analysing the noisy signal data for patterns that predict home occupancy across walls, floors, distance and signal strength, then building a software countermeasure against that inference.

PancakeOverflow

TypeScript, React, Node.js, Express, MongoDB

- Led a team of 3 to build a full-stack Q&A platform, delivering 23 features across Agile sprints and reviewing teammates' pull requests.
- Wrote 853 automated tests achieving 97% statement and line coverage; built a GitHub Actions CI/CD pipeline for automated testing and deployment.

SKILLS

Languages: Python, C++, SQL, Java, C, TypeScript, JavaScript, C#

Data & ML: PyTorch, PostgreSQL, MySQL, SQL Server, MongoDB

Environment & Tools: Linux, Git, Docker, AWS EC2, CI/CD