

Thanh Hang Pham

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EDUCATION

Princeton University | Princeton, NJ

Aug. 2022 – May 2026

Computer Science, B.S.E.; Minors: Statistics & Machine Learning, Finance

GPA: 3.92/4.00

- **Relevant Coursework:** Machine Learning, Algorithm & Data Structure, Distributed Systems, Functional Programming, App Dev., NLP, Neural Nets, Probability & Stochastic Systems, Regression/Time Series, Blockchain/Cryptography.
- **Leadership Roles:** ACM, Princeton Data Science, IgniteSTEM, Women in STEM, TigerApps, Undergrad Student Gov.

SOFTWARE ENGINEERING EXPERIENCES

Software Engineering Intern | [Citadel Securities](#) | New York, NY

June 2025 – August 2025

- Collaborated with the QF/Trading Ecosystem and Citadel Execution Service teams to design and develop real-time recon dashboards in Python/React for multi-region/asset trades, ensuring robust UAT sign-off when migrating to new workflows.
- Enhanced the Trading Execution Service infrastructure in C++ to integrate across all global markets.
- Automated the extraction/interpretation of trade decisions from voice calls and Bloomberg chats to reduce operational risk.

Software Engineering Intern | [Meta](#) | Menlo Park, CA

May 2024 – August 2024

- Collaborated with AI Infrastructure to design and develop internal tools for automating bulk customizations of ML models.
- Developed comprehensive unit testing in Python and implemented a database to store operations information to track failures.
- Designed dashboards to enhance users' experience and track the tool's health based on error-logging tools, database storage.

Launch Program Intern | [Palantir Technologies](#) | Washington D.C.

March 2024

- Collaborated with other interns to develop an interactive dashboard using Palantir's Foundry for vaccine distribution logistics.

Winter Intern | [Virtu Financial](#) | New York, NY

January 2024

- Created and presented trading strategies to senior traders through risk-reward and predictive models with time-series analysis.

Software Engineer | [The Daily Princetonian](#) & [Hack4Impact](#) | Princeton, NJ

Jan. 2023 – Present

- Implement dynamic data templates and web components like the photography archive and New Jersey Tree Foundation site.
- Manage backend operations for in-app advertisements on the Campus pages of the mobile app for The Daily Princetonian.

Software Engineering & Machine Learning Intern | [Ticket Wallet \(YC startup\)](#) | Remote

May 2023 – Nov. 2023

- Built multi-modal models with time series data and NLP for high-stakes real-time decision-making.
- Created RESTful endpoints for authorized users to perform CRUD operations on data from PostgreSQL databases.

Software Engineering Intern | [Aspiritech](#) | Evanston, IL

June 2023 – July 2023

- Developed a dashboard-style website with state-of-the-art security to improve the workflow of testers and clients.
- Programmed a Google Chrome extension to aid in quality assurance testing compliant with WCAG 2.1 standards.

Software Development Intern | [Vietnam National University](#) | Hanoi, Vietnam

June 2022 – Aug. 2022

- Processed sensor data and live footage of plants to create a site, integrating the data into MongoDB and MySQL databases.

SOFTWARE DEVELOPMENT PROJECTS

[SnapShot & TRU – To Remember U & gerr.ai](#) | Websites | Team-based

June 2022 – Present

- Developed websites with NLP to condense daily news, autogenerate bibliography through audio, and detect gerrymandering.

[VietFood](#) | Mobile Application | Individual

Feb. 2021 – May 2022

- Built a mobile platform targeting Houston's Vietnamese community, where users share and rate recipes.

[BoxOut & AstroGhost](#) | Video Game | Individual

Dec. 2020 – April 2022

- Designed, programmed, and deployed a puzzle game titled *BoxOut* and an RPG game titled *AstroGhost* with Java.

EXTRACURRICULAR

Research Assistant | [Intelligent Robot Motion Lab](#) | Princeton, NJ

Aug. 2023 – Present

- Second author on [Risk-Calibrated Human-Robot Interaction via Set-Valued Intent Prediction](#).
- Collaborate with Ph.D. students in uncertainty alignment for large language model planners within [robotics](#).

Undergraduate Course Assistant Manager | [Department of Computer Science](#) | Princeton, NJ

Feb. 2023 – Present

- Grade over 800 works from students taking 'COS226: Data Structure and Algorithm' across seven assignments.

Digital Learning Lab Specialist | [Digital Learning Lab](#) | Princeton, NJ

Sept. 2022 – Present

- Provide technical assistance in programming, data analysis/visualization, and video/audio production.
- Lead workshops on typographic art creation and design with Adobe Illustrator (intermediate level).

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C++, OCaml, SQL, R, HTML, CSS.

Frameworks / Technologies: ReactJS/React Native, NodeJS, Express, Django, Flask, Android Studio, Flutter, MySQL, PostgreSQL, MongoDB, AWS, Firebase, PyTorch, TensorFlow, Docker, Linux, Git, Adobe Illustrator, Figma.