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, Programming Systems, Neural Nets, Probability & Stochastic Systems, Linear Algebra, Calculus III, Entrepreneurship.
- **Leadership Roles:** ACM, Princeton Data Science, IgniteSTEM, Women in STEM, TigerApps, Undergrad Student Gov.

SOFTWARE ENGINEERING EXPERIENCES

Software Engineering Intern | Meta | Menlo Park, CA   **May 2024 – August 2024**
- Intern on the AI Infrastructure Workflow team, creating tools to automate the customization of AI model conveyors in bulk.

Quantitative Trading Intern | Virtu Financial | New York, NY   **January 2024**
Python • Database Visualization Tools
- Created and presented a trading strategy to senior members of Virtu through a risk-reward model and multiple predictive models with data analysis and market research.

Software Engineer | The Daily Princetonian & Hack4Impact | Princeton, NJ   **Jan. 2023 – Present**
React/React Native • NodeJS • Flask/Flask-RESTful • PostgreSQL (AWS RDS) • Google Firebase
- 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 (startup) | Remote   **May 2023 – Nov. 2023**
Django/Django REST • Flutter • PostgreSQL (AWS RDS) • AWS EC2, S3, SageMaker • Docker • PyTorch
- Built multi-modal models with time series data and NLP for high-stakes real-time decision-making.
- Created RESTful endpoints to perform CRUD operations for authorized users on data from PostgreSQL databases.
- Contributed to the UI design, development, and testing of the website and mobile application.

Software Engineering Intern | Aspiritech | Evanston, IL   **June 2023 – July 2023**
React • Flask • PostgreSQL • JavaScript (Chrome extension)
- 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**
React • NodeJS • MongoDB • MySQL
- Collaborated with Professor Trien and his team of students to develop a live website for graduate students.
- Processed sensor data and live footage of plants, 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 | 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 computer 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++, C, SQL, R, HTML, CSS, Assembly ARMv8.
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.