

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: 3.90/4.00

- **Relevant Coursework:** Machine Learning, Algorithm & Data Structure, Programming Systems, Probability & Stochastic Systems, Linear Algebra, Calculus III, Entrepreneurship.
- **Relevant Activities:** Princeton Data Science Chair, IgniteSTEM, Women in STEM Board, ACM, Student Gov.

SOFTWARE ENGINEERING EXPERIENCES

Software Engineering & Machine Learning Intern | Ticket Wallet (startup) | Remote

May 2023 – Present

Django/Django REST • Flutter • PostgreSQL (AWS RDS) • AWS EC2, S3, SageMaker • Docker • PyTorch

- Build multi-modal models with time series data and NLP for high-stakes real-time decision-making.
- Create RESTful endpoints to perform CRUD operations for authorized users on data from PostgreSQL databases.
- Contribute to the UI design, development, and testing of the website and mobile application.

Software Engineer | 'The Daily Princetonian' Tech Team | Princeton, NJ

Jan. 2023 – Present

React/React Native • NodeJS • Flask/Flask-RESTful • PostgreSQL (AWS RDS) • Google Firebase

- Implement dynamic data templates and components for various news sites and the mobile application.
- Manage backend operations for in-app advertisements on the Campus pages of the mobile application.
- Develop a photograph archive site for the "This Week in Photos" project for writers to share their photos easily.

Software Engineering Intern | Aspiritech | Evanston, IL

June 2023 – July 2023

React • Flask • PostgreSQL • JavaScript (Chrome extension)

- Develop a dashboard-style website with state-of-the-art security and WCAG 2.1 that improves the workflow of testers and provides clients with live updates of quality assurance testing results.
- Program 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 | Website | Team-based

June 2022

- Developed a site, trained with GPT, which summarizes, processes, and shows daily news digestibly.

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

- Working with Ph.D. student in uncertainty alignment for large language model planners within the application of [robotics](#).

Undergraduate Course Assistant | Department of Computer Science | Princeton, NJ

Feb. 2023 – Present

- Graded over 200 works from students taking 'COS226: Data Structure and Algorithm across seven assignments.

Digital Learning Lab Specialist | Digital Learning Lab | Princeton, NJ

Sept. 2022 – Present

- Provided technical assistance in computer programming, data analysis/visualization, and video/audio production.
- Led a workshop 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.