

Andy Phu

2900 University Ave SE, Minneapolis MN 55414

612-443-6878 | phu00003@umn.edu | andyphu.com | linkedin.com/in/andyjphu | github.com/andyjphu

EDUCATION

University of Minnesota - Twin Cities

Expected: May 2025

- B.S. Computer Science, *GPA: 4.0*
- Current Honors student, Dean's List Award.
- Courses: *Data Structures and Algorithms, Machine Learning, Operating Systems, Artificial Intelligence*

EXPERIENCE

UnitedHealth Group - Software Engineering Intern

Jun. 2024 - Present

- Used **Angular** & **C#** expertise to modernize APIs used by **1.3 million** healthcare providers.
- Migrated legacy 41 **.NET** microservices to **Kubernetes**, reducing server costs by **40%**
- Automated migration with **Python** and **Bash**, exceeding end of summer goal by **120%**
- Used **AI/ML** to remediate **150+** security vulnerabilities during migration.
- Extended to work during school year, due to performance

Student Storage Solutions - Co-founder

Aug. 2024 - Present

- Re-selling fragments of large storage units to students at a retail price.
- Achieved an interest list of **100+** students within **5** weeks of launch.

Interrante Research Group - Undergraduate Researcher

Aug. 2022 - Aug. 2023

- Lead a collaborative study on the effects of simulated environments on humans.
- Organized a study on the potential use of VR to reduce implicit bias.
- Developed a **Firestore** web app to automate logistics for **100+** participants.

University of Minnesota - Teaching Assistant

Aug. 2024 - Present

- Assisting in the instruction of an introduction to Python course with 750+ students, responsible for creating and grading homework, and holding office hours.

PROJECTS & INVOLVEMENT

Stud.ai, 1st place @ HackMIT (Github)

Aug. 2024 - Present

- Won **1st place** in Smartest AI Agent category at the Massachusetts Institute of Technology's Hackathon.
- Created chrome extension leveraging gpt-4o to estimate assignment completion time.
- Learned web scraping, extension development, AI Agent networks in <24 hrs.

Gopher Metro (Website)

Oct. 2023 - Present

- Designed **UI/UX** for a student transit companion app using React, Tailwind, and ChakraUI.
- Implemented push notifications using **Cron** schedulers and **FCM**.
- Created a RESTful backend server with Supabase to reduce website load times.

Flash (Website)

Jul. 2024 - Present

- Creating a lightweight back-testing platform using stock APIs for new traders.
- Used **AWS** DynamoDB to cache ticker lookups, reducing billing costs by **90%**.
- Used **AWS** Lambda to host a Node.JS based **RESTful** API backend.

Robotics Mentor

Sep. 2018 - Present

- Used former highschool robotics experience to mentor team FTC 23924.
- Taught **TensorFlow**, computer vision, and mecanum drive logic.

andyphu.com

Aug. 2023 - Present

- Developing a personal website with Next.js, React, Tailwind, ChakraUI.
- Licensed domain from Cloudflare registrar.

TECHNICAL SKILLS

Languages: C, C#, Python, Java, Haskell, OCaml, PHP, UML, HTML, Swift, SQL, Bash

Other: React, Webpack, Django, MongoDB, Agile, .NET, Docker, Kubernetes, Kafka