

Henry Phung

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Education

DePauw University

Bachelor of Arts in Computer Science and Mathematics

Expected Graduation: May 2025

Cumulative GPA: 3.88/4.0

- **Awards:** 20th place in 2022 ICPC Mid-Central North America Regional Contest, Dean's List 2022
- **Coursework:** Data Structure & Algorithms, Object Oriented Programming, Foundation of Computation, Database and File Systems, Graphics, Operating Systems, Advanced Algorithms

Experience

Esmart Solution Agency

Software Engineer Intern

May 2024 – Aug. 2024

Chicago, Illinois

- Developed a **website integrated with AI** to enhance user financial decision-making, including real-time stock price updates, **personalized investment strategies**, saving optimization, and smart expenditures planning
- Created a backend server **with authentication and database management** to support the data analytics team, provide deeply financial insights and educational resources

Tinh Van Software Organization

Software Engineer Intern

May 2023 – Aug. 2023

Hanoi, Vietnam

- **Increased user engagement by 30%** and optimized website performance through a strategic migration to the Next.js framework
- **Developed a microservices backend** utilizing REST APIs, applying the MVC pattern with JavaScript, MongoDB, Redis, and Docker for optimal scalability and maintainability

FPT Software Company

Full-stack Engineer Internship

May 2022 – Aug. 2022

Hanoi, Vietnam

- **Spearheaded the development of back-end** for a prototype website by utilizing Node.js and conducted rigorous testing with Postman to ensure optimal performance and functionality
- Designed and distributed embedded databases using pgAdmin4 and psql, **reducing the deploy time by 30%**
- **Guided a team of three developers** to implement the front-end, steering the website towards modernization through React and ensuring a cohesive and user-friendly interface

Projects

Summer Research

Visualizing Bivariate Discrete Distribution and Derived Distributions

May 2024 – Aug. 2024

Greencastle, Ind

- **Proposing a 2D visualization method** using disc plot for bivariate discrete distribution, enhancing the comprehension of statistical concepts for educational purposes.

Admin Dashboard | Gitlab, Pub/Sub, Redis, Docker, SQL, HTML/CSS

- Developed a controller tailored for administrative use to **monitor and analyze user activities with interactive graphs**, providing valuable insights for future strategies decision-making
- Created a real-time dashboard for admin and users, supporting 10+ concurrent chat rooms

The Unfinished Project | NextJs, React, MVC, Github, MongoDB, SQL, Cassandra

- Developed a NextJs and React-based application that enables users to create confidential notes for recipients, featuring an automated dispatch system
- **Collaborated with a team of 4 students** to spearhead the design and implementation phases of the project lifecycle, utilizing a diverse technology stacks

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Vue

Frameworks & Library: React, Node.js, Next.js, Express.js, REST API, Flask

Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Postman, MongoDB, pgAdmin4, CodeBlocks, Tableau