

# 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:** 20<sup>th</sup> 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

### Finbud Software Company

*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