Henry Phung

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Education

DePauw University   Expected Graduation: May 2025
Bachelor of Arts in Computer Science and Mathematics   *Cumulative GPA:3.88/4.0*
- **Awards:** 20th place in 2022 ICPC Mid-Central North America Regional Contest, Dean's List
- **Coursework:** Data Structure & Algorithms, Object Oriented Programming, Foundation of Computation, Database and File Systems, Graphics, Operating Systems, Advanced Algorithms

Experience

FinBud AI Company   May 2024 – Sep. 2024
Full-stack Software Engineer Lead   *Chicago, Illinois*
- Developed an **AI-powered financial website** with RAG-based language processing for real-time stock tracking, personalized trade suggestions, and chat-based financial guidance
- Created a backend server **with Passport authentication and database management** to support the data analytics team, provide deeply financial insights and educational resources
- **Led a team of 15 people**, with **AI-driven services** to support user commands, personalized insights, and interactive quizzes

Tinh Van Software Organization   May 2023 – Aug. 2023
Software Engineer Intern   *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 MongoDB, Redis, and Docker for optimal scalability and maintainability

FPT Software Company   May 2022 – Aug. 2022
Full-stack Engineer Internship   *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
- **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

Melify App | *Vue.JS, Passport, MongoDB, Netlify, Express*
- Developed an **music app** that integrated mood analysis to suggest personalized songs and playlists based on user emotions
- Implemented **real-time** song streaming, playlist customization, and user authentication to ensure a seamless and secure user journey

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 strategics 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++, C#, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks & Library: React, Node.js, Next.js, Express.js, REST API, Flask, Vue, Redux, Angular, jQuery
Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Postman, MongoDB, pgAdmin4, CodeBlocks, Tableau, Netlify