

Henry Phung

765-712-2230 | henryphung.hp@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

DePauw University

Expected Graduation: May. 2025

Bachelor of Arts in Computer Science and Mathematics

Cumulative GPA: 3.86/ 4.00

- **Award:** 20th place in 2022 ICPC Mid-Central North America Regional Contest, Dean's List (all semester)
- **Coursework:** Data Structure & Algorithms, Object Oriented Programming, Foundation of Computation, Mobile Development, Database and File Systems, Operating Systems, Advanced Algorithms, Deep Neural Networks

TECHNICAL SKILLS

Languages: Java, C/C++, HTML/CSS, JavaScript, Python, SQL(PostgreSQL), Assembly Language, R, Erlang

Frameworks & Libraries: React, Next.js, Node.js, Vue.js, Spring Boot, Express.js, REST API, Redux, jQuery, Flask

Tools: Git, GitHub, AWS (S3, lambda, SAM, API Gateway, Cloud Watch), VS Code, Postman, MongoDB, SQLite, Cassandra, Redis, Docker, Android Studio Code, Netlify, Vercel, pgAdmin4, Tableau, Jupyter Notebook

EXPERIENCE

Birdie AI Company - Startup

Aug. 2024 - Present

Software Engineer Intern

Remote

- Developed an AI-driven prompt search system, with **React and TypeScript**, implementing **Debounce techniques** to reduce API calls and fuzzy string matching to enhance response accuracy and search efficiency
- Revamped the codebase system architecture to support more new product offerings and reducing bugs **over 30%**
- Deployed **backend infrastructure on AWS**, utilizing AWS lambda, API Gateway, and SAM (Serverless Application Model) to optimize performance, reducing server costs **by 45%** through optimized resource allocation
- Automated the deployment pipeline by creating a **Bash Script** to streamline backend production updates, reducing manual deployment time **by 60%** and minimizing errors

FinBud AI Company - Startup

May. 2024 - Sep. 2024

Software Engineer Team Lead

Chicago, Illinois

- Developed a **full-stack financial app** using OpenAI APIs, Vue JS and Netlify to track stock on real-time, get personalized trade suggestions, and get financial guidance by **AI Chatbot**
- Design a system with multi-threaded authentication flow using Passport.js, reducing authentication latency **by 25%**, and ensuring **99% reliability** through **integration testing** of OAuth and JWT verification
- **Led a team of 15** to integrate Alpha Vantage and Polygon.io APIs, providing real-time financial market data of **200 companies**, which attracted key investment partner, and boosted **user adoption by 40%**

Tinh Van Software Organization

May. 2023 - Aug. 2023

Software Engineer Intern

Hanoi, Vietnam

- Achieved a 30% boost in user engagement, quantified by increased interaction, through a strategic migration to Next.js and WebSocket, enhancing the website interface and interactive UI elements
- Developed a scalable **microservices** backend utilizing RabbitMQ for **asynchronous messaging**, leading to **20%** API response efficiency, and enhancing system with MongoDB indexing, Redis caching, and Docker container

PROJECTS & LEADERSHIP

NoteScribe - Capstone Project | *Hugging Face, React, Amazon S3, JWT, Vercel*

- Developed a **full-stack application** that enables users to transcribe and translate speech and audio files, reducing manual transcription efforts in academic settings by **over 80%**
- Integrated **Hugging Face AI models** to perform **real-time** speech-to-text conversion and multi-language translation, **increasing 40%** accuracy through Word Error Rate (WER) test

Melify | *React, Spring Boot, PostgreSQL, Spotify API, OpenAI API, Netlify*

- Designed a **full-stack music app** allows users to stream, play, and share tracks with music playlists worldwide
- Implemented **OpenAI API and Spotify API** to enhance playlist customization based on user emotions, providing access to database music libraries with personalized recommendations

DePauw International Student in Computer Science Association | *President*

- **Directed 15+ executive board members** to host 3+ developmental workshops and a **Tech Panel** with 3 industry experts, engaging 50+ participants to promoting diversity groups in technology