

HIEU THAN

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Education

Arizona State University

3.93 GPA

Bachelor of Science, Major in Computer Science (Software Engineering)

Expected May 2026

- New American University - Kaplan International Scholarship
- Dean's List (2023 - Present)

Work Experience

Fullstack Software Engineering Intern

Jan 2025 – Present

MoveCars.com

Chandler, AZ

- Optimized **PostgreSQL** queries and added **database indexing**, reducing query response times and enhancing user experience by reducing page load times by 40% in a **Rails 8** automotive transportation platform.
- Developed and integrated key features in a **Ruby on Rails** app serving 15,000+ customers, leveraging **Active Record**, **Eager Loading**, **Partial Rendering**, **Hotwire**, and automated **Rake tasks** for data processing.
- Enhanced backend stability by increasing **RSpec** test coverage by 15%, writing automated **data migration and seeding scripts**, and contributing to **GraphQL API** development in an **Agile SCRUM** environment.

Software Engineer Intern

June 2024 – August 2024

Vietnam Airlines Ground Services (VIAGS), Vietnam Airlines

Ho Chi Minh City, Vietnam

- Collaborated with a 10-person engineering team to enhance and maintain a critical personnel management system for 18,000+ Vietnam Airlines employees, responsible for handling sensitive data including payroll, personal records, and employment history, using **ASP.NET MVC**, **ASP.NET Core**, and **Razor Pages**.
- Modernized the backend architecture to ensure data security and user authentication by implementing **OAuth 2.0**.
- Integrated **Redis** caching to optimize API performance, reducing latency by 20%, and maintained a 98% data accuracy rate through reliable VIAGS API synchronization.

Software Engineer Intern

June 2024 – August 2024

Vietnam Export Import Commercial Joint Stock Bank

Ho Chi Minh City, Vietnam

- Partnered with a cross-functional team of 6 software engineers to develop a **Progressive Web Application** (PWA) simulating a gift trading/e-commerce platform using **Node.js**, **Express.js**, and **Axios**.
- Optimize backend API response time by **30%** using **RESTful** architecture and asynchronous **JavaScript**.
- Implemented a full **CRUD-based** user management system using **MySQL** for data persistence and **JWT** authentication, improving security and scalability.

Projects

Deadline AI @ ASU University College PI Hackathon 2024 | *React Native, Tailwind CSS, Python*

- Collaborated with a team of four to design an **AI-driven** personal scheduler using the **OpenAI API** and **Python**, increasing productivity by **20%** through task prioritization.
- Integrated a real-time study-group matching feature in **React Native** with **WebSocket** notifications, encouraging collaboration and increasing engagement.
- Implemented a responsive, minimalist UI with **Tailwind CSS**, ensuring cross-device compatibility and accessibility.

Arizona Tree AI @ ASU SunHacks 2024 | *Vite, TypeScript, Python, FastAPI, React Azure Maps*

- Led a team of five to develop a **TypeScript-based web app** with a **FastAPI** backend, delivering tree-planting recommendations with **25% improved accuracy**.
- Integrated an interactive map powered by **React Azure Maps**, allowing users to explore real-time tree density, heat levels, and additional environmental data across any given areas.

Google Flight Booking System | *MERN Stack (MongoDB, Express.js, React.js, Node.js), Material UI, FlightAPI.io*

- Simulated a dynamic flight booking system using the **MERN stack**, enabling real-time searches and bookings through integration with **FlightAPI.io**.
- Built a responsive front-end with **React.js** and a secure backend using **Express.js** and **Node.js**, ensuring seamless user interactions and secure storage of booking data in **MongoDB**.
- Prioritized key features such as flight comparisons, personalized recommendations, and real-time price updates for user experience.

Leadership

Chief Executive Officer

April 2024 – Present

VinaSU (Vietnamese Students Union at ASU)

Tempe, AZ

- **Led a team of 15** to organize **10+ cultural and career development workshops**, engaging **900+ students** and fostering professional networking within the Vietnamese student community.
- Designed and implemented a mentorship program focused on career development, helping international students navigate career paths, prepare resumes, and gain internships.
- Established partnerships with guest speakers from **Amazon**, **Carvana**, **Perplexity**, **Simplify** and alumni to create an ongoing mentorship pipeline, ensuring continuous career support for international students.

Technical Skills

Languages: Java, JavaScript, C, C++, C#, TypeScript, SQL, Ruby, Python

Frameworks/Libraries: Expo, React, React Native, Tailwind CSS, ASP.NET, Node.js, RestAPI, FastAPI, Vite, Bun, MERN, Rails, AWS S3

Database: MongoDB, MySQL, PostgreSQL, SQLite, GraphQL

Tools: GitHub, Git, VS Code, WordPress, Visual Studio, Figma, Microsoft Office, Google Suite, Postman, Microsoft Azure, Asana