# 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**.
- Optimized **MySQL** database queries and stored procedures to access to employee records and payroll data, resulting in a 35% reduction in query execution time and increased system responsiveness.
- Integrated **Redis** caching to optimize API performance 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 30-member cross-functional team of software engineers to design and develop a credit-based gift redemption feature for Eximbank EDigi mobile app system using **Node.js** and **Express.js**
- Optimize backend API response time by **30%** using **RESTful** architecture and asynchronous **JavaScript**
- Deployed a dynamic point calculation engine using middleware logic and conditional routing with real-time transaction data and credit score thresholds, resulting in a 25% increase in daily user interactions with the rewards system.

## 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**.
- Combined a responsive front-end with **React.js** and a secure backend using **Express.js** and **Node.js**, ensuring smooth user interactions and secure storage of booking data in **MongoDB**.

## 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