

# TRONG HIEU THAN

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## Education

### Arizona State University

*B.S. in Computer Science (Software Engineering)*

4.03 GPA

*Expected May 2026*

## Experience

### Software Engineer Intern

June 2024 – August 2024

*Vietnam Airlines Ground Services (VIAGS), Vietnam Airlines*

*Ho Chi Minh City, Vietnam*

- Developed a scalable airline reservation PWA using **ASP.NET MVC**, **ASP.NET Core Library**, and **Razor** pages, achieving a 98% accuracy rate in real-time flight information through the **VIAGS API**.
- Built a secure, server-side account management system using **OAuth 2.0** and **JWT tokens** for user sessions, enhancing security and performance.
- Integrated **Redis** caching to optimize API calls, reducing response latency by **20%** and ensuring high-performance handling of frequent API requests.

### Software Engineer Intern

June 2024 – August 2024

*Vietnam Export Import Commercial Joint Stock Bank*

*Ho Chi Minh City, Vietnam*

- Engineered a **Progressive Web Application (PWA)** simulating a gift trading/e-commerce platform using **Node.js**, **Express.js**, and **Axios**.
- Implemented a full **CRUD-based** user management system using **MySQL** for data persistence and **JWT** authentication to improve security and admin control.
- Optimized backend API response time by **30%** using **RESTful** architecture and asynchronous **JavaScript**, enabling faster user interactions and reducing server load.

### Lead Website Developer/SEO Analyst

May 2024 – August 2024

*RoomieHub, LLC*

*Remote*

- Developed a landing page using **WordPress**, **HTML/CSS**, and **JavaScript**, implementing SEO best practices that led to a **30%** increase in user engagement and a **25%** rise in search engine ranking.
- Configured **Google Analytics** and **SEMrush** to monitor site traffic, improving engagement by identifying and optimizing high-impact keywords.
- Reduced load time by 40% using lazy loading and **JavaScript minification**, resulting in improved user retention.

## Projects

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

- Developed an **AI-driven** personal scheduler using the **OpenAI API** and **Python**, which prioritized tasks based on user preferences and boosted productivity by **20%**.
- 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 enhancing accessibility.

### Arizona Tree AI @ ASU SunHacks 2024 | *Vite, TypeScript, Python, FastAPI, Tailwind CSS*

- Web-based application built with **TypeScript** and **Vite** to assess canopy coverage and advocate for tree planting to mitigate the heat in Arizona's arid regions.
- Backend built with **Python** and **FastAPI**, using a **custom machine learning model** to deliver precise tree-planting recommendations via efficient real-time **RESTful endpoints**.
- 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.

### Gift Trading E-commerce Service (Licensed with Eximbank) | *Express.js, Axios, Node.js*

- Engineered a full-stack **PWA** for Eximbank's e-commerce service, utilizing **Node.js** and **Express.js** to achieve seamless server management and **API** integration.
- Incorporated **MySQL** for database persistence, reducing data retrieval time by 15% and ensuring data integrity during transactions.
- Integrated **JWT tokens** for secure user authentication, and configured error handling mechanisms that reduced critical errors by **20%**.

## Leadership

### Chief Executive Officer

April 2024 – Present

*VinaSU (Vietnamese Students Association at ASU)*

*Tempe, AZ*

- Led VinaSU's initiatives to promote Vietnamese culture at ASU, organizing 10+ events that enhanced cultural understanding and engaged over 500+ students.
- Strategized and executed organization-wide initiatives, improving inter-departmental collaboration and ensuring alignment with VinaSU's mission.
- Represented the Vietnamese international student body a cultural ambassador to advocate for over 80 students, ensuring that Vietnamese traditions are promoted within the ASU

## Technical Skills

**Languages:** Java, JavaScript, C, C++, C#, TypeScript, SQL

**Technologies/Frameworks/Libraries:** Expo, React, React Native, Tailwind CSS, ASP.NET, Node.js, RestAPI, FastAPI, Vite, Bun

**Tools/Databases/OS:** GitHub, Git, VS Code, WordPress, Visual Studio