TRONG 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

Software Engineering Intern — **Jan 2025 – Present**
MovedCars.com — *Chandler, AZ*
- Optimized **PostgreSQL** queries and added **database indexing**, reducing query response times by 30% and improving page load speeds by 40% in a **Rails 8** shipment tracking platform.
- Developed and integrated key features in a **Ruby on Rails** app serving 15,000+ customers, leveraging **Active Record**, **Eager Loading**, **Partial Rendering**, **Hotwire (Turbo, Stimulus)**, 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 team of ten developers to build 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 updates through the **VIAGS API**.
- Built a secure, server-side account management system with **OAuth 2.0** and **JWT tokens** for user sessions to enhance security.
- Integrated **Redis** caching to optimize API calls, reducing response latency by **20%** and ensuring **API** requests high performance.

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 **500+ students** and fostering a stronger connection within the Vietnamese student community.
- Designed and implemented a mentorship program focused on career development, helping **50+ international students** navigate career paths, prepare resumes, and gain internships.
- Coordinated with guest speakers to host career workshops, bridging students with industry professionals and providing actionable insights into professional growth.

Technical Skills

Languages: Java, JavaScript, C, C++, C#, TypeScript , SQL, Ruby
Frameworks/Libraries: Expo, React, React Native, Tailwind CSS, ASP.NET, Node.js, RestAPI, FastAPI, Vite, Bun, MERN, Rails
Database: MongoDB, MySQL, PostgreSQL, SQLite
Tools: GitHub, Git, VS Code, WordPress, Visual Studio, Figma, Microsoft Office, Google Suite, Postman, Microsoft Azure, Asana