

MIMI NGUYEN

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EDUCATION

Bachelor of Science in Computer Science
University of Houston

Houston, TX
Aug 2022 – May 2025

Associate of Science in Computer Science
Houston Community College

Houston, TX
Jan 2020 – Dec 2022

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, C++, HTML, CSS

Frameworks & Libraries: React, Tailwind CSS, FastAPI, Node.js, Express.js, Pandas, NumPy

Developer Tools: GitHub, Git, Docker, VS Code, Jenkins, Jira, Figma, Unity, Blender

WORK EXPERIENCE

Collins Aerospace – Raytheon Technologies
Quality Digital Developer Intern

Hartford, CT
May 2024 – Aug 2024

- Automated metrics reporting using **Python**, **Pandas**, and **NumPy**, reducing data processing time by 80% across SharePoint and ETQ systems
- Designed and maintained **Microsoft SQL Server** databases to streamline and optimize data workflows across departments.
- Utilized **Jira** to manage Agile sprints, increasing on-time delivery of project milestones by 35% through effective team coordination
- Implemented end-to-end automation for data analysis pipelines, cutting manual reporting tasks by over 90%

PROJECTS

Automated Data Processing Web Application

March 2025 – May 2025

- Developed a full-stack web app using **React** and **FastAPI** to automate Excel-based defect and shipment data processing
- Implemented backend logic with **Pandas** to clean, merge, and standardize complex Excel files
- Designed and tested the system with 100% unit and integration test coverage to ensure robust, error-free performance
- Decreased manual data handling time by over 75%, improving workflow efficiency for engineering teams

AI-Powered Product Recommendation Chatbot

Jan 2025 – May 2025

- Created **Figma** mockups and developed a responsive, user-friendly frontend using **Tailwind CSS**
- Built a **FastAPI** backend with support for chat scoring, context-aware recommendations, and model switching, reducing response latency by 45%
- Integrated **Supabase** to store chat history, user sessions, and real-time interaction metadata
- Achieved 100% test coverage to ensure stability, reliability, and seamless response fallback handling

Volunteer Management Platform

May 2024 – Aug 2024

- Created a responsive frontend in **React** to manage events, volunteer profiles, and schedules
- Built a **Node.js** and **Express** backend to handle CRUD operations with **MySQL** for secure and persistent data storage
- Developed custom skill-matching logic to connect volunteers to events based on overlapping qualifications, improving assignment accuracy by 60%

Interactive Virtual Dissection Lab

Jan 2024 – May 2024

- Designed and developed a VR Dissection Lab using **Unity**, enabling users to explore fetal pig anatomy interactively
- Modeled and animated 3D anatomical assets in **Blender**, accurately scaled for integration into an educational VR simulation
- Increased student engagement by 70% through immersive, hands-on learning in a virtual experience