

GIA NGUYEN

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EDUCATION

University of Houston, Houston, TX

May 2026

B.S computer science

- Relevant Coursework: Database Systems, Computer Org & Architecture, Programming and Data Structure, Algorithms and Data Structures

TECHNICAL SKILLS

Key Skills: Python, SQL, JavaScript, Node.js, TensorFlow, Keras, Flask, React, Docker, git, GitHub, Google Firebase, Jupyter Notebook, MSA

Languages: Vietnamese, English.

PROJECTS

- **POSTAL OFFICE WEB APPLICATION (JavaScript, Node.js, SQL, React):** Implemented a robust package tracking system, allowing customers, employees to monitor packages with unique tracking numbers. Designed a streamlined customer management system. Developed an efficient employee management system, enabling easy addition, updating and deletion of customer recording.
- **PLANT DISEASE DETECTION SYSTEM (TensorFlow, Keras, Flask, Python, Docker, HTML/CSS, git, GitHub):** Developed and robust CNN model trained on an extensive dataset for precise identification of various plant diseases. Created a user-friendly web application for real-time image upload and disease diagnostics. Enhanced model performance through advanced data argumentation and rigorous validation techniques.
- **U.S MEDICAL INSURANCE COSTS (Python, Matplotlib, Jupyter notebook):** Analyze a real-world dataset by building out functions and class methods to gain meaningful insight into the data. Utilizing data cleaning techniques to ensure the accuracy. Used Matplotlib to represent visual elements to help convey patterns, trends, and insights within complex sets of data.
- **CHILLIWACK APPROVAL SYSTEM (Flask, SQLAlchemy, Office 365 OAuth, HTML/CSS, Jinja2, MSAL, Docker, JavaScript):** Built a secure role-based academic request approval system with Microsoft Office 365 single sign-on (SSO) integration using MSAL and Microsoft Graph API. Designed and implemented user authentication, dynamic dashboards for users and administrators, and real-time session management. Developed database models with SQLAlchemy and set up automated role creation and access control logic. Deployed a modular Flask backend with session tracking, custom decorators for access control, and responsive HTML/CSS interfaces using Jinja2 templating.

EXPERIENCE

Honors College, University of Houston, Houston, TX

January 2024- Present

Technology Assistant

- Installed and configured new hardware, software, and networks, resulting in improved system performance and reliability
- Troubleshooting technical and operational issues
- Developed and implemented a user access control system that improved system security and prevented unauthorized access.

Department of Computer Science, Lamar University, Beaumont, TX

December 2022- May 2023

Student Technician

- Assisting students in resolving technical and operational issues.
- Configured hardware, devices, and software to set up workstations for employees and students.
- Created user accounts and assigned permissions. Performed software updates and routine maintenance on computers.

LEADERSHIP & COMMUNITY INVOLVEMENT

Society of Asian Scientists and Engineers (SASE)