

Hung Liu

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EDUCATION

University of Houston
Bachelor of Science
Major in Computer Science, Minor in Mathematics

Houston, TX
Expected Graduation Dec 2025

WORK EXPERIENCE

Panda Express

Shift Leader

Houston, TX
March 2022 - Present

- Provided exceptional customer service by greeting guests, addressing inquiries, and ensuring a positive dining experience
- Adapted to changing demands and provide support in various roles, such as cashier, food preparation, and kitchen cleaning, as needed
- Demonstrated strong communication skills by effectively conveying menu options, special promotions, and dietary information to guests

PROJECTS

Web-Based User Management System

January - April 2025

Created using Flask, HTML, CSS, JavaScript, PostgreSQL, Microsoft OAuth 2.0, Docker

- Architected a scalable academic workflow system using Flask and PostgreSQL that processes form submissions through customizable approval hierarchies, featuring dynamic PDF generation with LaTeX templates and digital signature integration.
- Implemented comprehensive authentication and security using Microsoft 365 OAuth2, building role-based access control across Department Counselors, Academic Directors, and College Supervisors with custom permission decorators.
- Engineered an administrative interface with configurable workflow engine allowing detailed control of approval sequences, role-specific permissions, and real-time monitoring of user submissions and approvals.

Postal Service Management System

January - April 2025

Created using MySQL, PHP, HTML/CSS, XAMPP, SQL, ER Modeling

- Engineered a multi-role web platform (Customer, Employee, Admin) using PHP and MySQL to manage package logistics, shop inventory, sales processing, and support tickets for a courier service.
- Designed and normalized a relational database with over 15 interconnected tables, including packages, trips, vehicles, inventory, and sales — enforcing integrity via foreign keys, constraints, and ER modeling.
- Implemented reporting and trigger systems: auto-alerted managers for low inventory and auto-alert customers when a package has been delivered; generated sales reports, delivery tracking logs, and support ticket summaries using advanced SQL joins and filters.

CNN-Based Pneumonia Detection from Chest X-Ray Images

January - April 2025

Created using Python, TensorFlow/Keras, Google Colab, LaTeX

- Developed a convolutional neural network (CNN) to classify chest X-ray images for COVID-19-related pneumonia detection with ~95.4% validation accuracy.
- Conducted ablation studies by varying dense layer sizes and dropout rates to evaluate generalization, overfitting, and performance stability.
- Visualized training and validation metrics across multiple runs and analyzed model behavior through accuracy/loss curves and computational time.

CERTIFICATION

Data Analytics Professional Certificate

Google

Online
July 2024 - Jan 2025

- Gained hands-on experience in data cleaning, data visualization, project management, and interpreting and communicating data analytics findings.

SKILLS

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

Frameworks & Libraries: Flask, Jinja2, Bootstrap, TensorFlow, Keras, Matplotlib, Seaborn

Software & Tools: Docker, PostgreSQL MySQL, Google Colab, LaTeX, RStudio, Tableau, Excel, Power BI, Railway

Data Analytics & Platforms: SQL Server, ETL, Azure, Google Cloud Platform (GCP), Cloud Storage

Authentication & APIs: Microsoft OAuth 2.0, Microsoft Graph API