# Hung Liu

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## EDUCATION

**University of Houston**　　　　　　　　　　　　　　　　　　　　　　　　　　　**Houston, TX**
**Bachelor of Science**　　　　　　　　　　　　　　　　　　　　　Expected Graduation Dec 2025
**Major in Computer Science, Minor in Mathematics**

## WORK EXPERIENCE

**Panda Express**　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Houston, TX**
Shift Leader　　　　　　　　　　　　　　　　　　　　　　　　　　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**　　　　　　　　　　　　　　　　　　**Online**
Google　　　　　　　　　　　　　　　　　　　　　　　　　　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