

Louis Fengqi Hu

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EDUCATION

Johns Hopkins University

Master of Engineering in Computer Science, Aug 2025 – Present

Coursework: Machine Learning, Computer Vision, Software System Design, Artificial Intelligence

Zhejiang Gongshang University

Bachelor of Engineering, Software Engineering, Sep 2021 - Jun 2025

Coursework: Data Structure, Operating System, Software Testing, Design Patterns, Database, Data Analysis

PROFESSIONAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C, SQL, PHP

Frameworks & Libraries: Spring Boot, Vue.js, Node.js, Express, PyTorch, OpenCV, NumPy, Pandas

Tools & Platforms: Git, Docker, Jenkins, MySQL, Junit, APIs, Vitest

PROJECTS

WearWise – AI-Engined Personal Wardrobe

Jan, 2026 – Present

- Developed a full-stack AI wardrobe platform using React, Express, MongoDB, and deployed by Vercel.
- Integrated Gemini and OpenAI APIs to build a recommendation engine that suggests outfits based on user prompts, wardrobe inventory, and local weather.
- Using the nano-banana image-generating model, implemented a virtual try-on feature, allowing users to visualize uploaded clothing items on their own photos.

Hybrid defect detection and validation framework for ceramic tiles

Sep. 2025 – Dec. 2025

- Designed an automated surface defect detection system based on the YOLOv8 architecture.
- Optimized the model by integrating Coordinate Attention mechanisms and SPD-Conv modules, reducing model size to 72% of the baseline YOLOv8s while maintaining original inference speed and accuracy.

Kitty Gourmet Food Hall—Online Shopping Platform

Oct. 2023 – Jun. 2024

- Architected a full-stack B2C e-commerce platform handling user management, product & order processing.
- Utilized Vue3 and Spring Boot, deployed the application on a server using Docker containers, and JUnit for unit tests, ensuring environment consistency and scalability.
- Led the entire development lifecycle, from system architecture design to server deployment and maintenance.

Programmer Forum Recommendation System Based on User Profiling

Sep. 2023 – Mar. 2024

Software Copyright Owner (Jointly)

- Using Node.js and Vue.js, engineered a dynamic recommendation engine that adjusts content ratios based on real-time user interest, significantly reducing information overload.
- Processed and modeled extensive user behavior data to construct high-precision user profiles.
- Improved resource retrieval efficiency by implementing personalized filtering for developer-centric platforms.

PROFESSIONAL EXPERIENCE

Hundsun Technologies Inc.

Oct. 2024 – Dec. 2024

Software Engineer (Intern) | Hangzhou, China

- Contributed to backend development for the transaction middle platform.
- Accelerated development workflows by utilizing the company's LLM tools (Light Code) for automated code review and documentation generation.
- Identified and resolved in the identification and resolution of business logic issues in existing code, improving code efficiency and readability by applying design patterns and modularization.

PUBLICATIONS

Python’s Evolution on Stack Overflow: An Empirical Analysis of Topic Trends

Aug. 2023 – Aug. 2024

- Published findings as First Author in the Journal of Computer Languages (COLA).
- Analyzed 2 million+ posts to identify shifting trends in Python library usage.
- Developed a GBDT model using Pandas and Matplotlib to forecast post popularity with high accuracy.