LIMING(Felix) ZHENG

www.linkedin.com/in/felix-cs | https://zlm23github.github.io/portfolio/ | 531-739-9370 | felixneucs95@gmail.com

EDUCATION

Northeastern University | MS in Computer Sciences (GPA: 3.82) **09/2022-12/2024**

- **Coursework:** Object-Oriented Design, Algorithm, Web/Mobile Development, Database Management, Game AI

University of Rochester | MS in Finance **01/2021-05/2022**

- **Coursework:** Foundations of Python, Financial Market & Investments, Financial Spreadsheet Modeling

University of Nebraska, Lincoln / BS in Finance **09/2016-12/2020**

SKILLS, ACTIVITIES & INTERESTS

Programming Language: Java, Python, JavaScript, TypeScript, HTML/CSS
Frameworks: React, React Native, Spring boot, Node.js, .Net Core
Tools: Elasticsearch, PostgreSQL, MySql, MongoDB, Redis, Cloud Service, RabbitMQ, Docker, Git, Linux

PROFESSIONAL EXPERIENCE

WorldEngine AI | *Software Engineer* **United States** | 01/2025-Present

- Developed internal Operation Management platform to assist Operator Managers in tracking task distribution and monitoring teleoperation data collection.
- Architected and implemented 15+ RESTful APIs using **Python** and FastAPI, ensuring high performance and security with **JWT** authentication and role-based access control (**RBAC**).
- Designed and optimized **PostgreSQL** database schemas, implementing indexing strategies, query optimization, and connection pooling with a singleton pattern, improving database query efficiency by 45%.
- Integrated **Elasticsearch** to enable full-text search and real-time analytics for task tracking and teleoperation data.
- Built frontend UI using **React** and **Ant Design**, developing 20+ components and implementing **Redux** for state management.
- Deployed microservices using **Docker** on Google Kubernetes Service (**GKE**), leveraging **BigQuery** for large-scale data analysis.

Verze LLC | *Software Engineer, Intern* **United States** | 06/2024 – 08/2024

- Developed microservices-based e-commerce platform (**C# + TypeScript**) deployed on **AKS** for real-time inventory management.
- Developed 10+ RESTful APIs (**.NET Core + Azure CosmosDB**) for product uploads, searches, and purchases.
- Optimized communication by combining **gRPC** and **RESTful APIs**, reducing request latency by 31%.
- Implemented **Redis** caching, reducing CosmosDB queries by 82%, improving data retrieval speed and reducing database load.
- Performed unit, integration, and load testing to ensure system reliability under high concurrency

Joblogic - X | *Software Engineer, Intern* **United States** | 06/2023 – 08/2023

- Built a video-sharing platform (**Node.js + TypeScript**) with user authentication and real-time data fetching, deployed on **AWS**.
- Developed 15+ RESTful APIs, optimizing video uploads, retrieval, and user interactions, reducing API response time by 35%.
- Leveraged AWS MediaConvert for video transcoding, reducing video processing time.

PROJECT EXPERIENCE

SnapLedger: Intelligent Bookkeeping Application (iOS) 6/2025-in progress

Tech Stack: *iOS, Spring Boot, Firebase Auth, MySQL, AWS S3, OCR API, Machine Learning*

- Developed an intelligent bookkeeping application (iOS) with receipt photo upload, automatic categorization, expense query, and chart visualization.
- Built RESTful APIs for image upload, bill management, and expense statistics.
- Integrated Firebase Authentication for secure multi-user support.
- Leveraged cloud OCR APIs to extract key data (amount, merchant, date) from receipts.
- Supported image storage on AWS S3 for reliable access and sharing.
- Enhanced automatic expense categorization using machine learning, improving accuracy overrule-based methods.

Distributed Task Scheduler 05/2025-06/2025

Tech Stack: *Python (FastAPI), RabbitMQ, Redis, Docker, RESTful API*

- Built a distributed task scheduling system supporting asynchronous task submission, distributed execution, and real time status tracking.
- Designed RESTful APIs for task creation, status query, and result retrieval.
- Integrated RabbitMQ to decouple API server and worker nodes, enabling scalable and reliable distributed processing.
- Utilized Redis for fast state management and Docker for containerized deployment.

Product Search System 04/2025-06/2025

Tech Stack: *Java (Spring Boot), Elasticsearch, MySQL, JMeter, Swagger UI, RESTful API*

- Developed a high-performance product search backend API using Spring Boot, supporting multi-condition search and large-scale data processing.
- Optimized database performance through advanced indexing strategies to ensure efficient query execution.
- Integrated Elasticsearch to further enhance performance, enabling full-text and filtered searches across product data.
- Conducted performance testing and optimization with JMeter, significantly improving system throughput and reducing response time by over 95% through database indexing, query tuning, and Elasticsearch integration.