

# Wenli Fei

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GitHub: <https://github.com/WenliFei417> | Syracuse, NY

## EDUCATION

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### Syracuse University — *M.S. in Computer Science*

Syracuse, NY, USA

Sep 2025 – May 2027 (Expected)

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Software Design, Databases, System Programming, Object-Oriented Programming, Database Systems, Operating Systems, Machine Learning

### Anhui University — *M.Fin. in Finance*

Hefei, China

Sep 2021 – Jun 2023

## EXPERIENCE

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### ZKXT Ruyun Technology Co., Ltd.

Hefei, China

— *Software Engineering Intern*

Mar 2024 – Jun 2024

- Built **RESTful APIs** with **Spring Boot** and **MyBatis-Plus** for student enrollment, scheduling, and instructor management
- Developed role-based **access control** for admin and instructor operations to ensure secure and authorized data modification
- Optimized backend performance by integrating **Redis caching** on announcement endpoints, reducing **MySQL** load by 40%
- Participated in **Agile** sprints with **Git-based workflows**, wrote **JUnit** tests, and deployed builds to test servers via **Maven**
- Partnered with front-end developers to **align API responses** and improve client-side rendering speed and user experience

### China Everbright Bank

Hefei, China

— *Data Analyst Intern*

May 2022 – Sep 2022

- Developed **automated Python scripts** to generate daily transaction summary reports, reducing manual processing time by 40%
- Wrote complex **SQL queries** to extract, transform, and clean financial data from internal databases for business insights
- Collaborated with IT and risk teams to optimize the pipeline for compliance reporting, improving efficiency and integrity

## PROJECTS

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### GeoConnect — *Location-based Social Posting Platform (Go, Elasticsearch, JWT, Google Cloud)*

- Built a backend platform for **location-based social posting and discovery**, allowing users to **sign up, log in, upload images**, and share posts tied to coordinates, enabling **instant nearby search** and content exploration through **Go REST APIs**
- Developed **RESTful APIs** for creating, searching, and deleting posts with **JWT authentication** and role-based access control
- Integrated **Elasticsearch** to enable **geo-distance queries** and full-text search for fast, efficient nearby post retrieval by location
- Implemented **Google Cloud Storage (GCS)** integration with a local storage fallback for flexible deployment and testing
- Deployed the application on **Google App Engine**, configured environment variables, and automated index initialization

### EventHub — *Event Search & Recommendation Backend (Java, Spring Boot, MySQL, AWS EC2)*

- Built a backend system for **event discovery** and **favorites management** using Java Servlets, Spring Boot and MySQL on AWS
- Developed **RESTful APIs** for event queries (keyword & geo-based), user authentication, and personalized favorites lists
- Designed a normalized **MySQL schema** and optimized queries to improve overall database performance and system scalability
- Integrated **Ticketmaster's public API** and implemented robust request validation, error handling, and JSON serialization logic
- Deployed the WAR package on **Tomcat on AWS EC2**, configured environment variables and managed server restarts

### QQChat — *Peer-to-Peer Messaging System (Java, Socket, Multithreading)*

- Built a real-time chat system using **Java Socket API**, supporting private messaging, group chat, and online user queries
- Designed custom **message types** (login, chat, user list) using **serializable objects** to simulate a communication protocol
- Implemented a **multi-threaded server** and command-line client for reliable and responsive real-time communication

## SKILLS

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- **Languages:** Java (advanced), Python, C, C++, SQL, Go, Bash, PHP, Kotlin
- **Technologies:** Elasticsearch, Google Cloud Platform (App Engine, GCS), AWS (EC2, S3, IAM), Spring Boot, MySQL, React, Redis, Linux, Maven, Git, Tomcat, JWT, bcrypt, JUnit, HTML/CSS/JavaScript
- **Concepts:** Cloud Deployment (AWS/GCP), RESTful API Design, Authentication & Authorization, CI/CD Pipeline, Backend Development, Database Optimization, API Integration, Version Control, Geo-spatial Search, Caching