

Yueyue Lin

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EDUCATION

University of Illinois Urbana-Champaign | School of Information Science | Champaign, IL

Master of Science in Information Science | Aug. 2024 - May. 2026 (Expected)

Core Courses: Data Structures & Algorithms, Web Programming, Cloud Computing Applications, Database Systems

Fudan University | School of Law | Shanghai, China

Master of Laws | Aug. 2020 - Jun. 2023

Tongji University | School of Economics and Management | Shanghai, China

Bachelor of Accounting | GPA **3.87/4.0**, Top **3%** | Aug. 2016 - Jun. 2020

SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, Go, C++
- **Frameworks/Tools:** Spring Boot, Flask, FastAPI, React, Next.js, Git, Docker, Kubernetes, Terraform
- **Database Management:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud Platform:** AWS (EC2, Lambda, API Gateway, RDS, DynamoDB, ElastiCache, S3, SNS, SQS, ECS), GCP
- **Software Engineering:** Microservices, RESTful APIs, CI/CD, TDD, System Design, Distributed Systems

PROFESSIONAL EXPERIENCE

Software Development Engineer | Shanghai, China

Envision Energy Co. | Jul. 2023 - Nov. 2023

- Architected **AI-driven** document analysis system, processing **multi-language** content with **28%** improved.
- Implemented **serverless backend** with **AWS Lambda**, **S3**, and **SQS**, handling **1,000+** documents monthly.
- Engineered **containerized OCR service** using **PaddleOCR** on **AWS Fargate** for non-English documents.
- Deployed **fine-tuned LLM** for contract analysis, storing structured results in **PostgreSQL JSONB** columns.
- Developed **React frontend** with document preview and **LLM-generated** annotations, reducing report time by **32%**.

PROJECTS

Campus-Focused Restaurant Discovery and Ordering Platform | Sep. 2024 - Present

- Built scalable platform handling **500+ QPS** using **Java** and **Spring Boot** microservices architecture.
- Implemented **API Gateway** with custom routing logic, deployed on **EC2** with auto-scaling capabilities.
- Optimized database queries with **ElastiCache**, reducing ranked listings load times by **79%**.
- Engineered secure authentication with **SMS login**, **JWT tokens**, and **Redis** for session management.
- Developed high-performance flash sale system using **distributed locks** and **SQS** for asynchronous processing.

LLM-based Travel Itinerary Planner Agent | Sep. 2024 - Nov. 2024

- Created **RAG-based** travel planning assistant integrating **LLM** and **Google Maps API** data.
- Architected **serverless backend** with **Firebase Authentication**, **Firestore**, and **Cloud Functions**.
- Implemented **Redis caching** for location data, reducing API calls by **37%** and improving response time.
- Enhanced LLM accuracy through **prompt engineering**, reducing hallucination with **structured context** delivery.
- Developed responsive UI with **React**, **JavaScript**, and **TailwindCSS** for immersive user experience.

Scalable Real-Time Forum Platform | Jan. 2024 - Mar. 2024

- Built high-performance **RESTful APIs** with **Spring Boot**, **MySQL**, and **Redis**, reducing latency by **40%**.
- Implemented **JWT authentication** and **role-based access control** securing all critical API endpoints.
- Deployed application on **AWS EKS** with **CodePipeline** & **ECR**, enabling auto-scaling and zero-downtime updates.
- Integrated **WebSockets** for real-time updates, reducing event notification latency to **35ms**.