

Yueyue Lin

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EDUCATION

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

Master of Science in Information Science | GPA 4.0/4.0 | 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, LangSmith, Git, Docker, Kubernetes, Terraform
- **Database Management:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Elasticsearch, Pinecone
- **Cloud Platform:** AWS (EC2, Lambda, API Gateway, RDS, DynamoDB, ElastiCache, S3, SNS, SQS, ECS), GCP
- **AI & LLM Tooling:** OpenAI API, Google Gemini API, LangChain, Pinecone, Prompt Engineering, ASR/TTS
- **Software Engineering:** Microservices, RESTful APIs, CI/CD, TDD, System Design, Distributed Systems

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Remote

Amiggle LLC | Jun. 2025-present

- Developed an **AI-powered mock interview system** for **multi-round, voice-based interviews** with intelligent scoring and personalized feedback
- Built modular **LangChain** pipelines with **OpenAI** and **Gemini models**, enabling **prompt customization**, and used **LangSmith** to test and compare model performance
- Designed a **resume-enhanced RAG** system using **Pinecone** to generate **personalized, context-aware** questions
- Integrated **ASR/TTS systems** and utilized **open-source voice engines** for realistic interview scenarios
- Developed scalable **REST APIs** with **FastAPI** to support agent workflows, interview sessions, user authentication, and membership management, leveraging **PostgreSQL** for data persistence
- **Containerized and deployed** backend services to AWS using Docker, enabling scalable, modular development and streamlined deployment across agent and platform services

Technical Solution Engineer | Shanghai, China

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

- Architected **LLM-based** 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 doc preview and LLM-generated annotations, reducing manual workload by **32%**

PROJECTS

Campus-Focused Restaurant Discovery and Ordering Platform | Dec. 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 **Firestore, Firebase Authentication, 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.