

Yueyue Lin

+1 (217)-979-7388 | yueyue0256@outlook.com | linkedin.com/in/yena830/

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

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

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Remote, US

Amiggle LLC | Jun. 2025-present

- Engineered an AI-powered mock interview platform supporting multi-round voice sessions with automated scoring and personalized feedback, adopted by **50+** early users and used for **200+** interviews during pilot testing.
- Orchestrated modular **LangChain** pipelines with **OpenAI/Gemini**, leveraged **LangSmith** for benchmarking, reducing average response latency by **~15%**.
- Designed a resume-augmented **RAG** system using **Pinecone**, improving question relevance by **30%**.
- Integrated **ASR/TTS** engines for real-time voice interactions, boosting session completion by **20%**.
- Developed scalable **REST APIs** with **FastAPI** and **PostgreSQL** for interview workflows, authentication, and membership services.
- Containerized services with **Docker** and deployed to **AWS EC2**, enabling scalable deployment and cutting release cycles to minutes.

Technical Solution Engineer | Shanghai, China

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

- Architected LLM-based document analysis system processed multi-language content with **28%** higher efficiency.
- Implemented serverless backend with **AWS Lambda, S3, and SQS**, handling **1,000+** documents monthly.
- Engineered a containerized OCR service on **AWS Fargate** with **PaddleOCR**, ensuring scalable deployment.
- 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.

SKILLS

- Programming Languages:** Java, Python, JavaScript, TypeScript, Go, C++, 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:** RESTful APIs, CI/CD, TDD, Microservices, System Design, Distributed Systems