

Ruoya Li

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SUMMARY

Software Engineer with experience building **enterprise applications**, REST APIs, and system integrations for large-scale business platforms. Experienced in API contract design, cross-service communication, data transformation, and cloud-native architectures, supporting commercial insurance systems and third-party carrier integrations.

SKILLS

Languages & Frameworks: Java, C#, Python, JavaScript/TypeScript, Spring Boot, .NET, React.js, Next.js, FastAPI

Cloud & DevOps: AWS (EKS, ECS, RDS, MSK), Cloudflare R2, Azure DevOps, GitHub Actions

Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Supabase

Backend & AI: REST APIs, Microservices, Kafka, RAG, ChromaDB, Embeddings, OpenAI API

WORK EXPERIENCE

GEICO – Software Engineer

Remote

Software Engineer Intern, Software Engineer (TDP)

Summer 2024, Summer 2025

- Enhanced backend services for GEICO's **B2B Commercial Digital Marketplace** within the Commercial Integration Service, supporting data exchange between internal insurance platforms and external carriers through **REST APIs**, shared data contracts, and service integrations.
- Implemented carrier onboarding enhancements by updating **API contracts**, DTOs, and data mappings across backend services while maintaining compatibility with existing integrations.
- Troubleshoot integration issues and validated end-to-end workflows using **Swagger**, application logs, and integration testing across cross-functional engineering teams.
- Contributed to **LaunchPad**, an internal platform for commercial insurance agents, developing frontend and backend features using **React.js**, **.NET**, and **SQL Server**, with deployments through **Azure DevOps CI/CD**.

DramaClips

Remote

Independent Software Engineer

2025 – Present

- Built and operated an AI-assisted short-drama content platform using **Next.js**, Supabase, Cloudflare R2, and Railway.
- Designed **asynchronous workflows** for direct-to-R2 video ingestion, AI hook generation, asset persistence, and multi-platform publishing.
- Implemented server-side tracking redirects, encrypted CPS destination storage, and database-backed analytics for content attribution and campaign performance.
- Integrated optional Vizard clipping workflows and a Chrome extension to streamline metadata import from authenticated content-management pages.

PROJECTS

AI Interview Copilot: RAG-based LLM System

- Built a **RAG-based AI interview coaching system** using **FastAPI**, **OpenAI API**, and **ChromaDB** for personalized question generation and answer evaluation.
- Implemented a two-stage retrieval pipeline using **SentenceTransformers embeddings**, vector search, and a **CrossEncoder reranker**, with structured JSON outputs and retry handling.

Cloud Marketplace: AWS Microservices Deployment

- Designed and deployed a cloud-native marketplace using **React.js** and **Spring Boot**, implementing a scalable microservices architecture on AWS.
- Orchestrated services using **AWS EKS** and implemented event-driven communication with **Kafka (AWS MSK)**.
- Integrated **GitHub Actions**, Amazon ECR, and CI/CD workflows to automate application deployment.

ConnectSphere: Cloud Social Network Platform

- Developed a full-stack social networking application using **React.js** and a **Go-based backend** deployed on **Google Cloud App Engine**.
- Implemented **JWT-based authentication** and secure routing for user session management.
- Integrated **Elasticsearch** to support efficient search and personalized content discovery.

EDUCATION

Johns Hopkins University

2023 - 2025

M.Sc. Computer Science (GPA: 4.0)

Kent State University

2011 - 2016

B.Sc.