

Ruikang "Leo" Guo

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EDUCATION

Syracuse University Syracuse, NY Sep 2021 - May 2023
M.S. Computer Science

- Relevant courses: object-oriented design and analysis, C++ programming, design and analysis of algorithms, computer architecture, Android programming, natural language processing, intro to AI

University of Washington Seattle, WA Sep 2016 - Jun 2021

B.A. Geography: Data Science with minor in Informatics

- 2020 - 2021 Annual Dean's List
- Relevant Courses: computer programming, client-side development, Android mobile development, data structure and algorithms, database management, advanced data science methods

SKILLS

Frontend Technology: ES6 JavaScript, React, Redux, HTML, CSS/Less/TailwindCSS, Bootstrap

Mobile Development: Kotlin, Retrofit, Coroutine, Glide, React Native

Backend: FastAPI, Java, Spring Boot, Node.js, Express.js, Mangum, Certbot, SQL/noSQL DBs

Platform & Tools: Git, Maven, Gradle, Heroku, Netlify, Docker, Figma, Adobe Suite, ArcGIS, Azure, AWS, GCP

GenAI Tools: LangChain, LlamaIndex, Streamlit, RAG, Pinecone

Other Programming Languages: C++, SQL, Python, R, Haskell

Database Management Certificate: UW 2018 Summer Database Management Certificate program

PROFESSIONAL EXPERIENCES

Day & Nite All Service New Hyde Park, NY July 2023 - Present
Software Engineer *GenAI, cloud computing, full-stack development, problem-solving*

Designed and developed a **GenAI** email chatbot leveraging **GPT-3.5-Turbo** to manage customer-facing email boxes for instant responses to inquiries on static documents and data in databases. Implemented **LangChain Agents + Tools** and **VectorStore-enabled Retrieval-Augmented Generation** using **Python** with **FastAPI**. Created embeddings with **text-embedding-ada-002** model and upserted vectors into **Pinecone** for **RAG**. Utilizing the same backend logic, built a ChatGPT-like chatbot for internal users using **Streamlit**. Combined, the projects reduced logistic coordinators' workload by 15%. Email chatbot was deployed to **AWS LightSail** with an **AWS Lambda function** to renew its new email notification subscriptions using Webhook. Deployed internal chatbot to **heroku**. **API keys** used to secure APIs.

Soca Networks Remote May 2022 - Sep 2022
Full-Stack Developer Intern *Full-stack development, SEO, start-up*

Developed a social network website from the ground up using **React**, **Redux**, **Ant Design**, and other technologies. Improved website's **SEO**, achieving page 2 Google search rankings. Created and managed **Restful APIs** on the backend. Secured **\$250,000** in annual venture capital funding for the final product. Collaborated with a startup team comprising professionals from Microsoft, Oracle, Amazon, and Apple.

PROJECTS

Chatbot for Personal Website GenAI + FastAPI + React Summer 2023
https://github.com/LeoKwo/chatbot_rkquo

Developed an AI-powered chatbot using OpenAI's GPT-3 and **LlamaIndex document loader** for **dynamic document retrieval**.

Implemented with **FastAPI** and deployed to **Heroku**, seamlessly integrated into my personal website to dynamically generate answers for questions about my resume.

Wavelength Full-Stack Android Application Fall 2022
<https://github.com/LeoKwo/wavelength>

Created a full-stack Android music library management app using **Kotlin**, **Retrofit**, **Spring Boot**, **MongoDB**, and **DigitalOcean**. Utilized Spring Boot to connect to MongoDB and efficiently manage audio and image files with **Kotlin coroutine**. Deployed backend on **Heroku**, facilitating smooth user experience.

Student Management System Full-Stack Web Development Summer 2022
<https://github.com/LeoKwo/student-management-system>

Designed and executed a full-stack student management system with **CRUD** APIs and input validation. Employed **Spring Boot**, **Spring MVC**, **Thymeleaf**, **Spring Data JPA**, and **MySQL**, deployed via **Docker**.