Runyu Yue

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SUMMARY

Seeking a full-time software engineer position starting from June 2025.

Incoming Master's student at Cornell University with a wide range of web and mobile development projects.

Strong knowledge of computer science and solid skills in Java, C, Python, SQL, HTML/CSS, and JavaScript.

EDUCATION

Cornell University	**Ithaca, NY, United States**
Master of Professional Studies in Information Science	Sep 2024 - May 2025
University of Toronto	**Scarborough, ON, Canada**
Bachelor of Science in Computer Science, GPA: 3.72/4.0	Sep 2020 - Jul 2024

Relevant Courses: Data Structures, Software Design, Software Engineering, Programming on the Web, Introduction to Databases, Computer Networks, Artificial Intelligence, Operating Systems

WORK EXPERIENCE

Douyin, ByteDance (parent company of TikTok)	**Beijing, China**
Full-time Intern at Commercial Security Department	May 2023 - Jul 2023

- Implemented online rental application using **React**, **Ant Design**, **Spring Boot**, **and PostgreSQL**.
- Built services with **Spring Boot** to handle stay management, search, and reservations.
- Created a responsive user interface using **React** and **Ant Design** to enhance user experience.
- Managed **PostgreSQL** for user data storage and integrated on cloud service using **Volcengine.**
- Used **Token-based Authentication** utilizing the **Spring Security** framework to protect user data.

PROJECTS

Twitch+: A Personalized Twitch Resources Recommendation Engine

- Built a full-stack web application for users to search Twitch resources and get recommendations.
- Built the frontend of the web application using **React** and **Ant Design**
- Created **RESTful API** controllers to handle HTTP requests and responses
- Used **MySQL** database on **Amazon RDS** to store game data fetched from Twitch API
- Containerized using **Docker** and deployed to **Amazon App Runner** for public access

Next AI: A Full-Stack Web-Based Q&A AI Agent for PDF Document Queries

- Engineered an interactive conversational UI leveraging **React** and **Ant Design**, enabling users to effortlessly upload and interact with PDF documents in real-time
- Architected and implemented RESTful APIs via **Express** and **Node.js**, optimized for request handling
- Utilized a memory **Vector Store** to cache generated embeddings for efficient retrieval
- Integrated **OpenAI's GPT-3.5 Turbo API** and **Langchain** technologies, resulting in a sophisticated AI Agent capable of document loading, splitting, storage, retrieval, and output functionalities

TECHNICAL SKILLS

Programming Language: Java, Python, JavaScript(ES6), TypeScript, Haskell, Racket, C, Golang

Database and Cloud: MySQL, PostgreSQL, MongoDB, Firebase, RDS, AWS, Amazon App Runner, Volcengine(cloud computing service of ByteDance), Vector Store, Google Cloud Platform

Web Development: React, Angular, HTML/CSS, Ant Design, Spring Boot, NodeJS, Express, Token, Socket.IO, PeerJS, PixiJS, RESTful APIs

AI Related: OpenAI GPT-3.5 Turbo API, Langchain

DevOps and Tools: GitHub, Docker