

# Jiayao(Zoe) Zhang

BACKEND SOFTWARE DEVELOPER

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## Summary

Backend Developer with over **3 years** of full-time experience specializing in Java development, system design, and automated testing. Currently seeking new opportunities in **backend** development. An engineer who loves solving problems.

## Education

### McGill University

B.A./BSc. MAJOR IN COGNITIVE SCIENCE (COMPUTER SCIENCE STREAM), MINOR IN LINGUISTICS

- cGPA 3.69/4.00

Montreal, Canada

Sept. 2017 - May. 2021

## Work Experience

### Enterprise Risk Analytics Group, Citigroup Services and Technology (China) Limited

Shanghai, China

BACKEND DEVELOPER

Jul. 2022 - Jan. 2025

- Designed and developed an internal **web application** to assess the capital adequacy of operational risks. Used **Spring Boot**, **Oracle**, and **Angular** to create a workflow integrating ICAAP models, enabling data ingestion, loss prediction, and allowing user to estimate capital adequacy.
- Led the design, development, and deployment of **6** major features and over **30** minor enhancements.
- Redesigned data structure to accommodate changes of two system reorganizations following the major restructuring at Citigroup and improving system adaptability.
- Integrated the system with a golden source for legal entity data, improving data accuracy by eliminating **5%** of outdated records. This integration reduced the volume of work for future reorganizations, enhancing system scalability.
- Implemented **data visualization** for file download features using **Apache POI**. Significantly improved user efficiency in analyzing data.
- Organized and delivered a knowledge-sharing session on new features of **JDK 17**.
- Mentored an intern and a new graduate by assigning tasks, conducting code reviews, and ensuring the quality of their deliverables.
- Actively contributed to team innovation projects. During a hackathon, developed a web application that generated testing reports, visualizing metrics to enhance collaboration between testing and development teams.
- Developed and supported a search tool using **Spring Boot**, **Elasticsearch**, and **Angular** over three iterations, allowing users to search for business-related abbreviations.

### Risk Identification Group, Citigroup Services and Technology (China) Limited

Shanghai, China

BACKEND DEVELOPER

Jul. 2021 - Jun. 2022

- Developed an internal **web application** to analyze daily financial news and generate word clouds. Implemented a **Spring Batch** pipeline to regularly fetch data and integrate with a Python endpoint.
- Worked with global agile team across time zones and were responsible for development of Shanghai team, demonstrating strong cross-regional communication and coordination skills.
- Actively contributed to innovation projects. Developed a proof-of-concept system using **Spring Boot** and **MyBatis-Plus** to manage work-from-home plans.
- Designed and developed an email management tool organizing testing emails during a hackathon and gained Bronze medal. This tool gained the attention of two teams and led to internal presentations.

### AI Lab, ByteDance

Shanghai, China

ENGLISH LINGUISTICS SUMMER INTERN

May. 2020 - Nov. 2020

- Collaborated with MLEs to generate reliable data, improving the accuracy of English pronunciation scoring models for second-language learners by **20%**, and increasing user satisfaction by **30%**.
- Trained and led a vendor team for data annotation, enhancing phoneme labeling reliability by 18% after training.
- Processed and cleaned data extracted from the application using **Python**, which facilitated effective analysis and model improvements.

### PanPass Information Technology Co., Ltd.

Beijing, China

WEB DEVELOPMENT SUMMER INTERN

Jun. 2018 - Jul. 2018

- Assisted in the backend development of the Sinopec website using the Spring Boot.
- Involved in the transformation from user interaction testing to **automated testing**, significantly enhancing testing efficiency and reliability. Tested **3** new features and **2** legacy features.

## Community Involvement

### Diversity, Equity and Inclusion

Shanghai, China

ORGANIZER

2023-2024

- Planned and executed four Diversity, Equity, and Inclusion (**DEI**) events.
- Hosted 2 cross-level talks on **self-caring** and **anti-bullying**.