**Yufan zhao**

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**Portfolio Website:** <https://leslie0605.github.io/>

**education**

**National University of Singapore Aug 2023 - May 2025**

**Master of Computing**

* **GPA:** 4.5 / 5.0
* **Related Courses:** Computer Systems and Applications, Database modelling and programming, Sound and Music Computing, Data Structures and Algorithms, Big Data Systems for Data Science

**Beijing Normal University Aug 2020 - Jul 2022**

Master of Applied Psychology (User Experience)

**Beijing University of Posts and Telecommunication Aug 2016 - Jul 2020**

Bachelor of Telecommunications Engineering

* **GPA:** 3.8 / 4.0 (Ranked top 5%)

**professional experience**

**Software Engineer Intern**  **May 2024 - Sep 2024**

**Yunex Traffic (formerly Traffic Department of Siemens)** Singapore

* Developed a **Go**-based backend system for tunnel asset management, using **PostgreSQL**, cron scheduling, and hexagonal architecture. Delivered 5 core modules, including report scheduler, file system manager, file generator, data validator and data parser.
* Implemented a comprehensive testing approach, utilizing Test-Driven Development (**TDD**) along with unit, integration, and end-to-end tests, achieving a code coverage of 80%.
* Partnered with DevOps team to streamline deployment by setting up a **CI/CD** pipeline, containerizing the application with **Docker** and **Kubernetes**, and reducing critical bugs by 40% through the integration of SonarQube into the pipeline.

**Product Manager (Full-Time) Jul 2022 - Jul 2023**

**Alibaba** Hangzhou, China

* Analysed buying patterns of 10,000+ users and conducted quantitative and qualitative research to gain insights into customer purchasing behaviour.
* Led cross-functional teams to design and implement features in an e-commerce application, increasing the purchase conversion rates of customers by 15%.

**projects**

**Backend Software Engineer Sep 2024 - Nov 2024**

* **AI Interview - An AI-driven interview platform helping users practice for job interviews**
* Developed an AI-powered interview platform using Node.js and **OpenAI APIs**(GPT-3.5-turbo and Whisper), enabling users to engage in personalized mock interviews with dynamic questions based on their resumes and targeted job descriptions.
* Implemented real-time TTS (Text-to-Speech), ASR (Automatic Speech Recognition), and response evaluation features, providing instant feedback and scoring to users, enhancing their interview preparation effectiveness.
* Github repo: <https://github.com/leslie0605/interview-platform-backend/>

**Backend Software Engineer Oct 2023 - Dec 2023**

**Order Processing System - Microservices-based project with Spring Boot**

* Developed a scalable order processing system in Java using microservices architecture. Incorporated Spring Data JPA/Hibernate for efficient data management and utilized MySQL for database interactions.
* Implemented an API Gateway for secure client-server interactions and enabled asynchronous communication with Kafka, enhancing system scalability while integrating seamless communication between services.
* Github repo: <https://github.com/leslie0605/spring-boot-microservices>

**skills**

* **Certifications**: Google Cloud Professional Machine Learning Engineer (2024)
* **Languages:** Python, Java, Golang, C/C++, C#, Javascript, HTML/CSS
* **Technology:** React, Node.js, Express, MongoDB, Sring Boot, MySQL, Postgresql, REST API, Microservices
* **Tools:** Git, Linux, Docker, Google Cloud Platform (GCP)