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**Yufan zhao**

**Mobile: +65 84111835**

**Email: [lesliezhao213233@gmail.com](mailto:lesliezhao213233@gmail.com)**

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

**education**

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

**Master of Computing, Major in Computer Science**

* **GPA: 4.55 / 5.0**
* **Related Courses**: Neural Networks and Deep Learning, Big Data Systems for Data Science, Cloud Computing

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

Master of Science, Major in Applied Psychology (User Experience)

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

Bachelor of Engineering, Major in Telecommunications Engineering and Management

**skills**

* **Certifications**: **[Google Cloud Professional Machine Learning Engineer](https://www.credly.com/badges/c32ec536-f1fa-4776-9672-f638efb586bd/linked_in_profile)** (Issued Dec 2024)
* **Languages**: Python, Java, Golang, C/C++, C#, Javascript (React and Node.js), HTML/CSS

**professional experience**

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

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

* Implemented 5 backend modules, including a report scheduler, file system manager, and data parser, using **Go** and **PostgreSQL**, to support tunnel asset management workflows.
* Enhanced code quality and reliability by applying Test-Driven Development (**TDD**), achieving 80% code coverage across unit, integration, and end-to-end tests.
* Streamlined the development workflow by integrating **Docker** into the **CI/CD pipeline**, and reduced critical code issues by 40% with SonarQube analysis.

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

**Alibaba Hangzhou, China**

* Conducted in-depth analysis of user behavioral datasets using **SQL** and **Python**, identifying trends for product feature development, leading to a 15% improvement in purchase conversion rates and a **10% increase in GMV**.
* Collaborated with cross-functional teams, including engineering, design, and business stakeholders, to define and prioritize requirements for an e-commerce application.
* Applied agile methodologies to manage the development lifecycle of key product features, coordinating with developers to deliver high-quality releases on time.

**projects**

**Machine Learning Engineer Dec 2024 - Jan 2025**

**End-to-End Diabetes Prediction Pipeline on Google Cloud**

* Implemented a scalable machine learning pipeline on Google Cloud Platform (GCP) to predict diabetes, achieving **an accuracy of 96% and an ROC-AUC of 0.95**.
* Containerized the solution using Cloud Build and Google Artifact Registry, and **automated** data preprocessing, model training, and evaluation workflows using Vertex AI Pipelines, **cutting manual overhead by 50%**.
* Deployed the model via Vertex AI Endpoint, **enabling real-time predictions** for incoming patient data.
* **Github repo: <https://github.com/leslie0605/diabetes-prediction-pipeline>**

**Full-Stack Software Engineer Sep 2024 - Nov 2024**

**A personalized AI-driven Mock Interview Platform**

* Led a team of three to design and develop an AI-driven platform, integrating large language models (**LLMs**), Text-to-Speech (**TTS**), and Automatic Speech Recognition (**ASR**), delivering a tailored interview preparation experience for candidates across multiple industries.
* Designed and implemented a scalable backend with **Node.js** and **JavaScript**, integrating **OpenAI APIs** to deliver role-specific question generation and real-time feedback for highly personalized mock interviews.
* Achieved a **4.2/5** average **user satisfaction** score in pilot testing, with users reporting increased confidence and better alignment of practice sessions to real-world interview scenarios.
* **Github repo: <https://github.com/leslie0605/mock-interview-platform>**