LIM JACK SHENG

📞 0124924968 　　　　in **Jack Sheng Lim**

✉ limjacksheng127@gmail.com 　　　🔗 **Jacksheng127**

EDUCATION

Bachelor of Computer Science (Computer System and Networking) 　Oct 2022 - Present
Universiti Malaya
- CGPA 3.83 / 4.00

A - levels 　Jul 2020 - Dec 2021
INTI International College Penang
- 3A, 1B

Secondary Education 　Jan 2015 - Dec 2019
SMJK Keat Hwa
- SPM 11A

WORK EXPERIENCE

Software Developer Intern, ViTrox Technologies Sdn. Bhd. 　Jul 2023 - Oct 2023
- Unit testing
- Develop X-ray system features using Java and C++
- Learn and apply the principles of software architecture, focusing on designing system flows, and implementing necessary functions and classes.
- Utilize Logger to print error messages to both the console and files
- Use localization.properties files to support multiple languages within the software application.
- Implement and utilize Gradle scripts to run unit tests written in C++ and generate results in HTML format.
- Design and develop the frontend interface for the machine using JavaFX.
- Employ version control systems, specifically Git
- Mostly use Java and C++ during the internship period

Data Engineer Intern, YTL SEA-Digital Bank 　Jul 2024 - Jan 2025
- Developed data pipelines using Apache Airflow to streamline data integration from multiple sources, including APIs, OSS and PostgreSQL databases.
- Integrated Webhooks and Microsoft Power Automate on Microsoft Azure to enable notifications and alerts from Airflow directly to Microsoft Teams.
- Created a re-sync mechanism to ensure data consistency between BDT and Holistics.
- Developed an automated password re-check mechanism for data warehouse users, with alert email notifications for expired or invalid credentials.
- Implemented resource specification settings for task and manager pods within Kubernetes, optimizing resource allocation and management.
- Developed a housekeeping script in Bash and PowerShell for automated file and folder management.
- Developed a script for rolling deletion of files based on specific retention periods, using Bash and PowerShell.

- Deployed Spark events from Kafka to ArgoCD
- Enhanced and updated Docker images on Alibaba Container Registry (ACR).
- Monitored Airflow through Grafana and K9s to track the status of each pod and ensure smooth operations.

PROJECTS

OpenSauce, Database Chatbot for Inventory Tracking
- Utilized LLM (Large Language Model) integration with a vector database for conducting similarity searches, enabling real-time tracking of inventory stocks with features for adding and updating basic stock information, and facilitating inventory inquiries through chatbot interaction.
- Technologies Used: **React, Firestore, Django, Pinecone, Gemini, PaLM**

Stroke Prediction
- Using Python to train the SVM model to predict the percentage of getting stroke and link to the frontend that uses React framework through Django framework
- Technologies Used: **Python, React, Django**

Pregnancy Care App
- Develop a Pregnancy Care App that provides basic information about the formation of a fetus, together with recommendations of the meals and nutrients required by pregnant women and track the pregnant women's pregnancy cycle.
- Technologies Used: **Flutter, Dart, Python, Flask**

Three Kingdom: Red-Cliff Battle
- A web gamification-based application. This game simulates the scenarios in Three Kingdoms: Red-Cliff Battle where the user will act as Sun Quan's loyal minister to help Sun Quan to beat Cao Cao. Includes game features such as Forming Wu Kingdom's Hierarchy, Borrowing Arrows with Straw Boats, Enemy Fortress Attack Simulation, Red Cliff on Fire, and Engaging Cao Cao at Hua Rong Road.
- Technologies Used: **Java, React, Spring Boot**

ACHIEVEMENTS

- 2nd runner-up, UM Hackathon 2023
- 2nd runner-up (closed category), Programming League National 2023
- 2nd runner-up, National Innovative Hackathon 2023
- Top 10 Finalist, KitaHack 2024
- Top 10 Finalist (Open category), CodeNection 2023
- Participant, Google Solution Challenge 2023
- Participant, EY Open Data Science Challenges 2024
- Participant, Varsity Hackathon 2024

EXTRA-CURRICULAR ACTIVITIES

- UMHackathon 2024 - Director
- GDSC Developer Team Lead (2023 - 2024)
- GDSC Cloud Tech Team Core Team Member (2022 - 2023)