

Jiayu Liu

IT Graduate

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Summary

A graduate with a master’s in information technology is an enthusiast bringing practical academic experience delivering technical projects. Seeks a position that offers professional challenges utilising interpersonal skills, excellent time management and problem-solving skills. Organised and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to learn new techniques to meet team goals. A hardworking and passionate job seeker with strong organisational skills eager to secure entry-level/graduate position. Ready to help the team achieve company goals.

Highlights

- Good knowledge on creating **AWS** users and groups through IAM and use permissions to allow and deny their access to **AWS resources**
- Knowledge in automating deployments, scaling, and operations of application containers across clusters of hosts, provide container-centric infrastructure by **Kubernetes** and to manage the containerized applications, creating config Maps, deployments, secrets, services and deploying application containers as pods.
- Good knowledge on DevOps tools like **Docker, Kubernetes**.
- Good knowledge on understanding and learning from the data.

Website: <https://portfolio-lovat-alpha.vercel.app/>

Technical Skills

AWS	■■■■■ ■■	Python	■■■■■■■■■■
Java	■■■■■ ■■ ■■	JavaScript	■■■■■■■■ ■■ ■■
HTML	■■■■■■■■■■	CSS	■■■■■■■■■■
Docker	■■■■■■■■ ■■	R	■■■■■■■■■■
Kubernetes	■■■■■■■■ ■■	SQL	■■■■■■■■■■


Education


2020-2023

**Master of Information Technology**
Monash University, Melbourne, VIC

- **Coursework:** Cloud Computing & Security; Software Engineering; Data Exploration & Visualisation; Project Management; Data Processing for Big Data; Machine Learning; and more.

2017-2019

**Master of Applied Economics & Econometrics (Applied Econometrics)**
Monash University, Melbourne, VIC

**Bachelor of Commence (Accounting & Finance)**

Experiences

Web Development

July - Dec 2022

Postgraduate Final Project

Project focused on developing a website hosted on **AWS** (Amazon Web Services) to help people prevent back pain (chronic disease).

- Enabled the website to provide small exercises in users' daily schedules and giving them good posture notifications.
- Personally undertook the coding of all of the required features.
- Created function to help users analyse the seriousness of their back pain.
- Integrated capability for correcting and monitoring the user's sitting posture through the webcam.
- Used management console to provision AWS resources.
- Commended for making quality demonstration of the website and fully addressing technical queries raised during the expo.

Cloud Security & Computing

May - Jun 2022

Implementing and deploying an application on the AWS Cloud

- Deployed AWS Cognito service to prevent unauthorised access and malicious requests.
- Identified a list of objects detected in an image such as person, cat using Python.
- Uploaded an image to an **S3** bucket through an API Gateway endpoint.
- Created an API Gateway with a **RESTful API** and **Lambda function** enabling users to submit their queries.
- Integrated an API enabling end-user to add or remove tags of an image.

Cloud Security & Computing

Mar - May 2022

Creating and deploying a web Service within a containerised environment

Project aimed at enabling users to send an image to a web service hosted by Docker containers and receive a list of objects detected.

- Worked on creating **the Docker containers and Docker consoles** for managing the application life cycle.
- Hosted the web service as a container in a **Kubernetes** cluster. Implemented Kubernetes to deploy scale, load balance and manage Docker containers with multiple namespaces.
- Designed the **RESTful API** using Python's FLASK library.
- Conducted end-to-end testing of the system under varying load and number of pods conditions.

Clustering of interval time series

May - Dec 2019

Conducting research on the clustering of interval time series

Project aimed at providing different methods to compute variables in clustering analysis, mainly focusing on Point-to-Point comparison, Time domain method and Wavelet analysis.

- Worked on interval time series to avoid neglecting variability within the time period in some situations and hence accuracy.
- Researched different approaches to conduct the clustering analysis.
- Point-to-Point comparison used to generate the distance matrix.
- Time domain method and Wavelet analysis are the approaches to extract the feature of time series.
- Applied exchange rates from 12 countries and region and the temperature data in Australia to analyse the performance of the approaches.

Other Experience

Intern

Shenyin & Wanguo Futures
2019

- Predicted the price of Zinc using the time series model.
- Analysed financial data and compiled a detailed report for presentation.