

# Phone Sett Paing

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GitHub: <https://github.com/PhoneSettPaing>

Portfolio: <https://phonesettpaing.github.io/>

## Skills

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|--------------------------------|------------------|------------------------------------|
| • Python (Pandas, NumPy, ETLs) | • Apache Spark   | • Shell Script                     |
| • SQL (MySQL, PostgreSQL)      | • Apache Airflow | • AWS (S3, Glue, Athena, Redshift) |
| • NoSQL (MongoDB)              | • Apache Kafka   | • Excel, Tableau                   |

## Projects

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### Data Modelling and Data Warehousing the DVD Rental Sample Database in AWS Redshift

- Exported tables from **PostgreSQL** database into **AWS S3** bucket
- Created and Run **AWS Glue Crawler** and used **AWS Athena** to query tables in **S3**
- Created the **Star Schema Data Model** for **AWS Redshift** Data Warehouse
- Created a cluster and a database in **AWS Redshift**
- Created and Run **ETL job in Jupyter Notebook** and **AWS Glue Job** to upload tables from **S3** into **Redshift**
- Connected **Tableau** with **Redshift** to create a report **dashboard**

### Real-Time Sales Data Analysis Application

- **Explored** and **Wrangled** sales dataset from Kaggle
- Written and run a **Kafka Producer** python script to **stream** sales data to “sales topic” **topic in Kafka server**
- Written and run a python script to create database and tables in **MySQL** to store processed data
- Written and run a python script which uses **Spark** to **ingest, process and store** data from “sales\_topic” Kafka topic into **MongoDB** and **MySQL**
- Created a **live dashboard** in **Apache Superset** using data from sales and stocks tables in **MySQL**

### IBM Data Engineering Capstone Project

- Created a data platform that uses **MySQL** as an **OLTP database** and Wrote a **bash script** that exports all rows in a table to a file to **automate** the export of the daily incremental data
- Created a data platform that uses **MongoDB** as a **NoSQL database** then imported data into that database and query data and export the data from database as csv file
- Designed and implemented a data warehouse and query to generate reports from the data in **IBM DB2**
- Created a connection between table in **IBM DB2** and **Watson Studio** with added **Cognos Dashboard Embedded (CDE)** service to create a **Reporting Dashboard**
- Created a python **ETL script** that can be used to **schedule to sync up** the data between **MySQL staging** data warehouse and **IBM DB2 production** data warehouse
- Created an **ETL pipeline** using **Airflow** which analyses the web server log file, extracts the required fields, transforms and load them into a tar file
- Created a **Spark Session** and loaded a **pre-trained sales forecasting model** and used this to **predict the sales** for year 2023

### IBM Data Analyst Capstone Project

- Collected data for the technology skills that are in demand using **APIs** and **Web scraping**
- Prepared the collected data for analysis by finding and **removing duplicates**, finding and **inputting missing values**
- Done an **exploratory data analysis** on the cleaned data such as finding the **distribution** of data, presence of **outliers** and also determine the **correlation** between different columns in the dataset
- Used **SQL queries** to **extract the data** from RDBMS and **Visualize** the **distribution** of data (Histogram, Box Plot), the **relationships** in data (Scatter Plot, Bubble Plot), the **composition** of data (Pie Chart, Stacked Chart), the **comparison** of data (Line Chart, Bar Chart)
- Used **IBM Cognos** to create **interactive dashboards** to help me analyse and present the data dynamically
- Created a **power point presentation** to present the findings of my analysis

## Work Experience

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### **Retail Manager at Mya Gon Yaung, Mandalay**

Jan 2021 - Present

- Handling cash, deliveries, returns and writing receipts
- Calculating and reporting the day's sales
- The reorganisation of retail displays increased sales
- The recommendation of which products to restock in which month was made after assessing sales and social media.
- Boosted sales by instructing staff to recommend to consumers small goods and items they tend to purchase in pairs

### **Research and Assistant Engineer Intern at Pro Engineering Co., Ltd, (PEC), Mandalay**

Oct 2019 – Feb 2020

- Examining new goods and services and writing evaluations of them
- Conducting research to create an energy monitoring system using LoRa communicable metres
- Soldering and testing electronic components for LED light bulbs
- Assisting in the design of a small solar power system
- Traveling to remote villages for fieldwork

### **Crew Member at McDonald's, Southampton**

Jun 2019 – Sep 2019

- Maintained proficiency at every station while cooking food orders
- Aided other crew members to keep team workflow at an efficient level
- Stocking shelves and replenishing dining area, kitchen, and counter areas
- Cleaning kitchen area and equipment
- Greeted customers at counter and took orders, suggesting menu items

## Education

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### **BEng in Electrical and Electronic Engineering, University of Southampton, Southampton**

Sep 2015 – Jun 2019

## Certificate

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### **IBM Data Science Professional Certificate, Coursera**

- <https://www.coursera.org/account/accomplishments/professional-cert/98AR5Z9JCYRM>

### **IBM Data Engineering Professional Certificate, Coursera**

- <https://www.coursera.org/account/accomplishments/specialization/certificate/ULRT7G5UJFV5>

### **IBM Data Analyst Professional Certificate, Coursera**

- <https://www.coursera.org/account/accomplishments/specialization/certificate/8RXKNAPX72ZD>

### **CCNA Certificate, Cisco**

- [https://drive.google.com/file/d/1-JlvhXFKiLDkHtUlqXmmV3\\_15KV4fO9R/view?usp=drivesdk](https://drive.google.com/file/d/1-JlvhXFKiLDkHtUlqXmmV3_15KV4fO9R/view?usp=drivesdk)