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KOH Wei De John

SKILLS

- Languages: Java, Python, JavaScript

- Database: MySQL

- Analytics: SAS (Enterprise Guide, Visual Analytics, Enterprise Miner), Tableau (Data Visualization), Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Gensim, NLTK, Spacy, Keras)

CERTIFICATIONS

- SAS Certified Base Programmer for SAS 9

- SAS Certified Big Data Professional Using SAS 9

- SAS Certified Predictive Modeler Using SAS Enterprise Miner 14

- Spark and Python for Big Data with PySpark

EXPERIENCE

Business Intelligence & Analytics (BIA) Trainee   October 2018 – Present

SAS – Currently attached to PCS Securities Pte Ltd

Conducted extensive research on Social Media using Python and presenting findings to support the department's plan.

- Conducted social media analysis and provided various use cases such as Topic Modelling (using Gensim, visualizing it in pyLDAvis), Sentiment Analysis (using VaderSentiment) and Hashtag Trends.
- Developed basic Unix/Linux tutorial to provide staffs a guided learning environment.
- Wrote batch script to assist team in silent installation of multiple installation files on 30 machines, reducing execution time by more than 50%.
- Developed materials to give a brief introduction to Data Science and Machine Learning to the division of 30 staffs.
- Assisted in a SIEM POC by ingesting logs into Elastic using Logstash.

Business Intelligence & Analytics (BIA) Trainee   June 2018 – September 2018

SAS

- Undergone a 4-months intensive training to learn various SAS tools and obtained 3 certifications.
- Completed training includes SAS Enterprise Guide, SAS Data Integration Studio, SAS Visual Analytics, Hadoop Data Management with Hive, Pig and SAS.

Operations Analyst Intern   January 2017 – March 2017

Roadbull Logistics Pte Ltd

- Spearheaded in a project to automate sorting process, improving sorting accuracy to more than 97%, decreasing sorting time by 2 hours.
- Created a UI/UX prototype for Roadbull's career page using Axure RP.
- Conducted 3 1-hour Excel training workshop for 15 fulltime employees to increase their efficiency.

Web Developer Intern   May 2016 – August 2016

Papier Blanc

- Developed and maintained mobile responsive Tumblr and WordPress sites for clients.
- Created a user guide for client to post blogs on WordPress.

EDUCATION

Singapore Management University   August 2014 – June 2018

- Bachelor of Science (Information Systems), 2nd major in Analytics

PROJECTS

Technical Writer   February 2019

Towards Data Science

- Publication: https://towardsdatascience.com/profiling-my-favorite-songs-on-spotify-through-clustering-33fee591783d

- Conducted Unsupervised Machine Learning to identify groups of songs which are similar on my Spotify playlist.

- Visualized cluster through dimension reduction and showed cluster profiles through matplotlib and seaborn.

Analyst   January 2018 – April 2018

SMU Li Ka Shing Library

Worked in a team of 3 to analyze if the increase in loan policy from 2 hours to 3 hours is enough.

- Liaised with client to gather requirement, business understanding and data to analyze.

- Prepared data by standardizing values, removing outliers and missing values and calculating new calculated values using JMP.

- Performed Fisher's Exact Test and Wilcoxon Signed Rank Test to test the significance of the findings using JMP.

- Presented findings to client and recommended a change in policy.

Analyst   January 2018 – April 2018

SMU GROW

Worked in a team of 6 to create an IoT solution to assist gardeners to find the optimal conditions for plant growth.

- Liaised with the President of SMU GROW to deploy our team's prototype on their plot and presented findings and recommendations to them.

- Tested and debugged Raspberry Pi 3 to improve battery life, extending from 1-hour to 4-hours for deployment.

- Analyzed environmental conditions, such as being weather-proof and soil-proof, to build a feasible prototype.

- Analyzed the difference between IoT farming and non-IoT farming using Tableau.

- Analyzed the sensitivity of the sensors using Tableau.

Social Media Analyst   August 2017 – November 2017

Timothy Joshua, @TimothyJoshua

Worked in a team of 5 to increase client's Instagram follower count and post likes.

- Recommended hashtags to client to reach out to a wider audience using Python and Tableau, increasing average likes by 38% and followers by 56%.

- Analyzed topics which competitors are posting about to recommend our client.

- Conducted sentiment analysis of client's post from the comments using Python NLTK to understand what our client's follower like.

- Recommended time slots for client to post to receive the most likes using Tableau.

Web Application Developer   June 2016 – November 2016

Fixir

Worked in a team of 5 to increase client's Instagram follower count and post likes.

- Developed web application for workshops and mobile responsive web application for driver, reducing driver-workshop match time by 50%.

- Proposed an improved business process to integrate web application into the current workflow.

- Conducted user testing with 30 users to improve usability of the application.

CO - CIRICULAR ACTIVITIES

Operations Director   September 2014 – September 2015

SMU Travitas

- Headed a team of 7, to plan and execute a welfare drive with internal stakeholders for 300 exchange students and members.
- Responsible for logistics, including sourcing of food vendors, setting up of photo booths and sound systems.
- Planned for manpower allocation for the various food and photo stations.
- Responsible for venue and logistics during Travitas' Amazing Race for members.

Operations Executive   July 2015 – October 2015

SMU Arts and Cultural Fraternity – EVE Arts Awards Night 2015

- In a team of 7, organized a night to celebrate the Arts in SMU, achieving the target audience of 300 students and staffs in total.
- Sourced and proposed food vendor given a tight budget.
- Managed the venue setup, including lights and sounds, manpower allocation and program flow.

Operations Director   October 2014 – August 2015

SMU Broadcast and Entertainment – Be-xposé Camp 2015

- Organized a 3D2N camp for 100 incoming freshmen, introducing them to different wings in the club.
- Handled logistics, manpower allocation and booking of venues.

Programs Executive   September 2014 – August 2015

 SMU Arts and Cultural Fraternity – Arts Camp 2015

- Worked in a team of 5 to organize a 3D2N camp for 200 incoming freshmen, introducing them to different arts clubs in SMU.
- Liaised with more than 20 clubs to conduct workshops and to perform for freshmen.
- Organized a Gala Night, involving external performers.

COMMUNITY SERVICE

Facilitator   July 2015

SMU Caretalyst – Flight of Dream

- Guided children from various beneficiary such as Beyond, to find their dream.
- Facilitated in bringing the children to Marina Barrage for fun, games and to fly their dreams.

Operations Executive   August 2014 – December 2014

Gazaab Nepal VI

- Planned and executed a 2 weeks project in Sanjiwani Higher Sec. School, Dhulikhel, Nepal, teaching students about business and funding them for their business proposal.
- Raised over SGD$1000 through a 1-week fund raising in SMU.
- Mentored 3 teams of 5 students each, resulting in 1 team obtaining seed fund for their business proposal.
- Painted and organized the library in Sanjiwani Higher Sec. School to provide a more conducive environment for students to study.