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LinkedIn: https://www.linkedin.com/in/huiyaolee/ Github: https://github.com/HuiYao98
Part-time Work/ Internship Availability: Sept 2023 onwards (Part Time), Dec 2023 – Jan 2024
(Full Time)

EDUCATION

Nanyang Technological University, Singapore   Aug 2020 – May 2024 (Expected)
- **Bachelor of Engineering (Computer Engineering) with a Minor in History**
- Relevant Modules: (Software) Data Structures and Algorithms, Algorithm Design and Analysis, Object-Oriented Design & Programming, Software Engineering, Applied Cryptography, Computer Networks

ACADEMIC PROJECTS

Nanyang Technological University, Singapore
Applied Cryptography   Sep 2022 – Nov 2022
Title: Secure Peer to Peer File Sharing Program
- Conceptualised and developed an End-to-End Command line Messenger Application using Python capable of sending and receiving encrypted text messages.
- Applied various encryption concepts such as AES, RSA, and Certificate authority to ensure, the confidentiality, integrity, and authenticity of Application.

Object Oriented Programming Project   Aug 2021 – Nov 2021
Title: Restaurant Reservation and Point of Sale System (RRPSS)
- Developed a console RRPSS application using Java in a team of 4; Focused on the display and editing of menus items and integrating with other features such as managing reservations, customer orders, staff lists, and displaying of sales records.
- Implemented Object-Oriented concepts to enhance the robustness and improve efficacy of the RRPSS.

Introduction to Data Science and AI   Jan 2021 – May 2021
Title: Predicting and Analysing movies statistics and revenue
- Analysed correlation between movie revenues, Twitter users mention of movies, and YouTube trailer statistics of more than 1000 movies in Python.
- Utilized sentiment analysis to analyse tweets and based on different predictors applied a basic machine learning model to predict movie revenues.

PERSONAL PROJECTS

Nanyang Technological University, Singapore
Allianz Consulting Case Competition 2022   Sept 2022
- Worked in a team of 4 with an Allianz Consulting mentor to propose solutions to case question; Acquired knowledge in technical knowledge Merger & Acquisition, and the Insurtech sector.
- Emerged as top 6 teams out of 62 teams, continue working on our presentation and presented our proposal to a set of Allianz panellist.

Escendo 22 Hackathon   Jan 2022
Title: Hawker Centre Table Occupancy System
- Designed and developed a table occupancy system proof of concept in a team of 3 using Arduino, and the accompanying interface using Flask API, and React JS.
- Achieved a place in the top 12 and pitched our proposal to a panel of Professors and Industry judges, covering various aspects such as formulating and analysing problem statement and evaluating solution market potential.

INTERNSHIP EXPERIENCE

Pan-United Concrete Pte Ltd, Singapore
Software Developer Intern   Jan 2023 - Aug 2023
- Gathered user requirements including feature request and bug fixing using Java, concepts, and frameworks such as Spring Boot, Hibernate, and Angular
- Researched and gathered information on the Data Warehouse Deployment and the Extract, Transform and Load (ETL) process; Conducted extensive research into the different cloud providers such as Google Big Query, AWS Redshift and Microsoft Azure
- Chaired weekly progress meetings with colleagues; Worked on report and eventually presented recommendations to management.
- Built, tested, and deployed Data pipelines onto Google Big Query using a mix of ETL tools such as Google Data Fusion, Apache Airflow and Airbyte; Deployed Data pipelines onto production using Google Compute Engine and Docker

Ahamove, Ho Chi Minh City, Vietnam   Dec 2022
Data Analyst Intern
- Developed a business framework to assist the company in identifying suitable offline store locations for quick commerce using different aggregates.
- Applied clustering Algorithms (KMeans, DBscan) on more than 1 million delivery datapoints using Python and Jyupter Notebook; Utilised various Python Library such as Folium to visualise data.

Nanyang Technological University, Singapore   Dec 2021 – Nov 2022
Student Assistant (Part-Time)
- Designed a long-range communication system between ground control station and prototype with an expected range of over 50km, using Pixhawk 2.1 (Pixhawk Cube Black) and RFD 900+, ESP32, and MG995 Servomotors
- Designed and implemented an onboard camera system using Raspberry- Pi, and Rpi-Camera using Python.

WORK EXPERIENCE

Working Holiday, New Zealand   Nov 2019 – Aug 2020
Fruit Picker, Dairy Farmer
- Developed cross culture communication skills while working in a team of more than 15 people, from various countries.

LEADERSHIP & CO-CURRICULAR ACTIVITIES

Nanyang Technological University, Singapore
Conjunct Consulting, NTU Chapter   Jan 2022 – Dec 2022
Associate Consultant
- Acquired knowledge on various consulting skills such as Data Gathering, Synthesis, Storyboarding, and Logic tress in preparation for case competitions and consulting work with NGOs.
- Worked closely in a team of 5 to extract and analyse information from the survey data, and thereafter storyboard and present our findings to the client.

SKILLS

Languages: Proficient in English and Chinese
Programming: Python, Java, C, Javascript, SQL
Software Applications and Frameworks: Angular, Spring Boot, Google Cloud Platform, Apache open source libraries (Spark, Airflow, Hive, HDFS) , Airbyte.
External Certificates: Google Associate Cloud Engineer

HOBBIES & INTERESTS

Travelling, Outdoor activities, Sports (Football and Muay Thai), Aviation