Chong Jack Pang

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Skills

- Programming Languages: Python, Java, C, C++, SQL, Kotlin, Matlab
- Data Engineering & Workflow: ETL, Apache Airflow, Dagster, Prefect, dbt, Mage, Airbyte, Octoparse, Snowflake, BigQuery, PostgreSQL, MySQL, MongoDB
- Machine Learning: PyTorch, TensorFlow, Scikit-learn, LLM Model Fine-tuning, Prompt Engineering, Computer Vision
- Web & API Development: FastAPI, Selenium, BeautifulSoup
- Data Visualization: Power BI, MS Excel, Matplotlib, Seaborn
- Workflow Orchestration: Airflow, Dagster, Prefect
- Project Management: Jira, Scrum
- Cloud & DevOps: Amazon Web Services (AWS), Google Cloud Platform (GCP), Git

Working Experiences

Userdata, AI Engineer (Full-Time)   Dec 2024 – Present
- Developed 3+ APIs using FastAPI to support AI, data engineering, and ML workflows.
- Designed ETL pipelines to process thousands of records to structure data.
- Fine-tuned LLM models for AI-driven applications.
- Engineered prompt generation techniques, to optimize AI-generated justifications.

Hiredly, Data Science Intern (Part-Time)   Nov 2024 – Present
- Designed and maintained 300+ ETL pipelines using Airbyte, Mage, and dbt, improving data ingestion and transformation.
- Performed data scraping from over 30+ company careers pages using Octoparse, enhancing job data collection.

Hiredly, Data Science Intern   Aug 2023 – Nov 2023
- Performed ETL processes, handling and integrating 500,000+ data points to ensure efficient data management.
- Designed and implemented automated task scheduling, reducing manual work by 30%, and developed 10+ automation scripts for routine tasks.
- Research on developing 2 APIs for ML/Data Ops purposes.
- Optimized the job recommendation system, resulting in a 5% improvement in matching accuracy than previous version and increased user engagement by 10%.
- Research and utilize LLM models to build AI-powered virtual interviewer.

Academic Projects

Final Year Project: Job Recommendation System using Content-Based Filtering
- Developed a content-based filtering recommendation system using Streamlit with job-based, user-based, and profile-based recommendation for job seekers.

Education

Asia Pacific University of Technology and Innovation   Sep 2021 – Sep 2024
- Bachelor of Computer Science with Specialism in Artificial Intelligence
- Current CGPA: 3.64/4.00

Extracurricular Activities

Google Developer Student Club – Data/AI Co-Lead
- Led the Data/AI initiatives within the club, organizing workshops and events.
- Held a successful workshop on Data Engineering for 30+ students as the speaker.
- Served as organizing committee member under the PR department for the Google Workspace Hackathon 2024, managing over 1,200 participants.

Achievement

APU X AWS DeepRacer 2023
- Trained an autonomous race car by designing reinforcement learning algorithm.
- Rewarded as first runner-up with the highest lap record of 9.106 second among 300+ teams.

Tune Protect Hackathon 2023
- Design an insurance-based customer loyalty program with the utilization of GCP services.
- Rewarded as second runner-up with the innovative solutions presented among 30+ teams.