YAP CHENG KANG SEAN (2025 APPLICATION)

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EDUCATION

Singapore Management University (SMU) — **Singapore**
Bachelor of Science (Information Systems) — **Aug 2022 - May 2026**
- Major in Artificial Intelligence and Digital Cloud Solutions
- GPA: 3.56/4.00

EXPERIENCE

Seagate — **Singapore**
AI Engineer Intern — **May 2024 - Aug 2024**
- Developed an internal automated image forensic tool to detect manipulated images, incorporating trained Convolutional Neural Networks on ELA and PCA outputs, achieving 91% accuracy and an F1 score of 0.9, cutting down investigation time by 50%
- Created agentic Retrieval-Augmented Generation LLM workflow proof of concept using Llama3, Langchain, Langraph, LlamaIndex to decrease hallucinations and improve context accuracy
- Wrote a research paper on the best practices for combating AI-driven fraud, including C2PA and CAI implementation, IMDA AI Verify governance testing

TikTok — **Singapore**
Risk Analyst Intern — **May 2023 - Oct 2023**
- Performed weekly risk assessments and in-depth analysis on ads across global markets and addressing risk violations and emerging trends
- Spearheaded the launch of the SEA Accelerator Program, empowering agencies to manage bad actors through the implementation of blacklisting and suspension mechanisms using GNNs RegEx, lowering risk metrics by 10%
- Spearheaded the development of consolidated dashboard for all product lines to enhance reporting efficiency, better support for cross-functional teams, and enable real-time monitoring of all the key risk metrics, reducing analysis time by 50%
- Conducted post-opening of Forex market risk assessment to evaluate the impact of the Forex market on SEA markets and recommendations regarding the safety and viability of Forex within these markets
- Created audio to text translator using OpenAI speech recognition model to reduce cross-language ads moderation duration by 15%

Foodpanda — **Singapore**
Data Analyst Intern — **Jan 2022 - Jul 2022**
- Advised commercial team in category trends and distribution gaps; drove the creation of an interactive dashboard to help with insights and analysis for category market share, basket penetration, customer penetration and product distribution dashboard(ND, PCV, ACV, SPPD)
- Advised the commercial team and pandamart suppliers in optimizing promotions via a Market Basket Analysis utilizing Pyspark framework (FP-growth algorithm) to identify and provide key insights to customer buying patterns across all categories
- Designed a forecasting framework to help the commercial team optimize promotion strategy and supplier funding
- Led a team of 5 for Foodpanda's hackathon challenge, attaining overall champion. Proposed algorithm to segments sales of goods into selling velocity to then be further segregated to maximise picker and prep time efficiency
- Led weekly consultative sessions to help address business issues via dashboards utilizing Google Datastudio & BigQuery
- Performed analysis for campaigns/promotions/experiments to understand better on promotion mechanics and sales performance

TECHNICAL SKILLS

Programming languages: Python|PHP|JavaScript|Typescript|SQL
Frameworks and Databases: ReactJS|NodeJS|MongoDB|Express|Vue3 | Git | GitLab
Tools: Google BigQuery|mySQL|Google DataStudio|Tableau|Aeolus|JEDI|HIVE|Clickhouse

PROJECTS

All in One Full stack Web Application — **Singapore**
Full-stack Developer
- Developed a WFH Management System with a team of 6 using React, TailwindCSS, shadcn/ui
- Implemented GitHub Actions workflow to automate the deployment of Dockerized images to Google Artifact Registry, Google Cloud Run, and AWS S3, streamlining CI/CD processes and enhancing deployment efficiency

TuitionDaddy Full Stack Web Application — **Singapore**
Full-stack developer — **Jan 2024 - Apr 2024**
- Dockerized and deployed over 10 micro-services using Golang, TypeScript and Python on AWS for a personalized recommender platform for study resources and tutors. 2nd place for Dell VMWare Cloud Native Tanzu award
- Developed AI quiz generator using OpenAI-GPT4 with langchain

Mask Detection model using YOLOv5 — **Singapore**
Author — **Jul 2021 - Aug 2021**
- Implemented a computer vision model capable of identifying people wearing/not wearing masks with 75% accuracy

Correlations between Reddit and the Stock Market — **Singapore**
Author — **Jun 2021 - Jul 2021**
- Identifying correlations between subreddit r/wallstreetbets and stock market utilizing on Spearman & Pearson correlation coefficients