

Justin Koay Tze Ji

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WORK EXPERIENCE

Junior Data Scientist, May 2024 - current

Govtech Nucleus Unit, Kementerian Digital, Kuala Lumpur

Full stack data scientist working in direct collaboration with software engineers to build web applications from the ground up.

- Developed web-scraping infrastructure for SiaranGovMy ([demo](#))
 - A modular infrastructure to easily customize scraping logics across 30+ ministry/agency websites for media releases
- Developed parser to convert pdf to markdown ([demo](#))
 - Using Python and the PyMuPDF library to parse PDF files from urls to plain text, markdown and metadata
- Developed AI-powered microservices:
 - Generative UI component generator using the Malaysian Design System component library ([demo](#))
 - Image alt text generator ([demo](#))

Data Scientist I, Oct 2022 - May 2024

AirAsia SEA Sdn. Bhd., Selangor

- Maintained the predictive booking pace curve model
- Developed ETL pipelines
- Developed Looker Studio dashboards
- Routine exploratory and feasibility studies for new datasets, and problem statements

EDUCATION

Bachelor of Science (Hons) Biotechnology, June 2020

Universiti Tunku Abdul Rahman, Kampar, Perak

SKILLS

Python: Pandas, DuckDB, numpy, Sci-kit learn, Hyperopt-sklearn, Streamlit, FastAPI, Plotly, request-html, Pyspark

Google Cloud Platform: BigQuery, Looker Studio, Google Kubernetes Engine, Google Cloud Storage

Others: Vega/Vega-lite, Airflow, Terraform, Git, Snowflake SQL, R, Vercel

LANGUAGE

English – Proficient

Mandarin – Fluent

Malay – Conversational