Rafi Pangestu

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Internship Availability: Dec 2023 – May 2024 (Full Time & Credit Bearing)

EDUCATION

Nanyang Technological University (NTU Singapore)   Aug 2021 – Jul 2025
- Bachelor of Engineering (Honours), Chemical & Biomolecular Engineering
- Expecting Highest Distinction (Current CGPA: 4.51/5.00)

Self-Learning & Development
- Deep Learning Specialization (Coursera), Bootcamp (Udemy), Professional Data Scientist (DataCamp), Azure Databricks & Spark for Data Engineers (Udemy), Data Structures & Algorithms – Python (Udemy), The Modern React Bootcamp (Udemy)

WORK EXPERIENCE

Data Science & Engineering Intern, GetGo Carsharing   May 2023 – Aug 2023
- Held primary responsibility for GetGo's financial risk project. Developed it end-to-end, from data engineering to analysis using Databricks, uncovering significant growth halters such as over 3 million SGD worth of uncompensated car damages.
- Overhauled legacy ETL/ELT scripts resulting in average speed-ups of over 300x despite requiring cheaper compute resources and handling larger data volumes using PySpark, Delta Lake, and Databricks. Scripts successfully extracted and transformed data from multiple sources (S3, APIs) into snowflake schema-based dimensional and fact tables.
- Engineered a robust customer segmentation framework using Databricks dashboards and ML algorithms (K-means, DBSCAN, PCA). Received high accolades for the highly effective framework, which facilitated customer profiling for multiple stakeholders and served as a valuable tool to diagnose data pipeline issues for the Data Engineering team.

TECHNICAL PROJECTS

Personal Website [GitHub] [Website]: Personal website built with React (via Next.js 13), ChakraUI, and Vercel.
freecodecamp Videos [GitHub] [Medium]: Text mining and analytics project built using AWS S3, EC2, Boto3, and Apache Airflow.
HDB Resale Price [GitHub]: Singapore HDB resale price regression using Random Forest. Utilized target and ordinal encoding.
European Happiness [GitHub] [Tableau]: Data analytics project built with AWS RDS, Python, and Tableau on Europe's happiness.
Cassava Disease [GitHub]: Cassava disease classification using ResNet-50 & PyTorch Lightning trained on Kaggle GPU resources.

CO-CURRICULAR ACTIVITIES

Vice-President of External Affairs, Indonesian Cultural Night Musical (ICN 2024)   Mar 2023 – Feb 2024
- Overseeing mainly the Corporate Liaison and IT teams for an original Indonesian musical showcasing in February 2024.
- Leading the ticketing website development using React, Flask, MySQL, and Stripe for 700+ potential payments.
- Liaising with potential sponsors and planning fundraising activities to raise over 20,000 SGD for the event.

Director of Corporate Liaison, Indonesian Cultural Night Musical (ICN 2023)   Jul 2022 – Feb 2023
- Spearheaded a team of eight members to successfully raise over 20,000 SGD for an original Indonesian musical through orchestrating various fundraising initiatives such as business projects, sponsorship deals with external parties (Bank Indonesia, Indonesian Embassy, and others), and canvassing projects with NUS and Standard Chartered.
- Assisted in marketing and ticket sales efforts, resulting in the team collectively selling 770 tickets and generating around 13,000 SGD in revenue.
- Presented the show as emcee during the night show to an audience of 450+ people.

Assistant Director of Social Events, School of Chemical and Biomedical Engineering (SCBE) Club   Sep 2021 – May 2022
- Led a team of 11 to organize social events for SCBE undergraduates, such as SCBE Trivia Night 2021 with doubled participation compared to last year's Trivia Night, and a successful 3-day SCBE Festival Week with 100+ unique participants.

SKILLS

Data & Cloud Engineering: Databricks, Spark, AWS, Airflow, Data Warehousing, ETL, ELT, Delta Lake, GCP, dbt
Data Analytics: Python, Tableau, MATLAB, Excel, SQL
Machine Learning: Scikit-Learn, XGBoost, Keras, PyTorch, Spark MLlib, AutoML
DevOps/MLOps: Docker, Git, CI/CD, MLflow
Web Development: HTML, CSS, JavaScript, React.js, Next.js, Node.js, Java, Tailwind CSS, Flask, Firebase, MongoDB
Others: English, Bahasa Indonesia, Corporate Liaising, Public Speaking.