

DAO TRONG KHANH

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EDUCATION

National University of Singapore

Aug 2022 - Present

Bachelor of Engineering in Computer Engineering, Minor in Data Engineering

- Relevant Coursework: Big Data Systems for Data Science, Data Structures and Algorithms, Machine Learning, Linear Algebra, Probability and Statistics, Signals and Systems, Computer Organization

TECHNICAL SKILLS

Programming Languages	Python, C++ (Proficient), Java, JavaScript (Intermediate)
Database/Data Processing	RDBMS, MySQL, Hadoop MapReduce, Apache Spark, Apache Kafka
Cloud Service	Amazon Web Services, Firebase
Web Development	Spring, Spring Boot, SQL, NoSQL, React, HTML/CSS/JavaScript
AI/Machine Learning	Scikit-Learn, PyTorch, TensorFlow
Others	Git, FPGA Programming, Apache Airflow

EXPERIENCE

Data Engineer Intern, FPT Information System

Vietnam, May 2023 - Aug 2023

- Department's Project: **Fisheye** - A data tool designed to streamline data retrieval and mapping processes for Data Engineers.
- Created DAGs using Spring Boot for user-configured workflows and REST API integration with databases.
- Utilized Apache Airflow and Apache Spark to design DAGs for data retrieval, transformation, and insertion into databases.
- Applied Apache Kafka and Spark Streaming to seamlessly process and insert real-time messages from Kafka topics.

PROJECTS

Alex to the Rescue (Team of 4)

- Constructed a simulation of a self-driven car, Alex the Bot, using Raspberry Pi OS and LiDAR technology.
- Navigated a random map, reconstructed a detailed 3D model of the map, detected obstacles, identified objects and suitable paths, and executed precise parking manoeuvres.
- Applied SLAM algorithm to map the environment accurately.

StockXtreme (Team of 2)

- Created a real-time stock platform allowing users to browse stocks, view and analyse live stock data, manage portfolios, and engage in virtual trading.
- Developed front-end with React and integrated platform with Firebase for back-end functionality.
- Write unit test, conduct manual testing, set up and perform automated tests.

EXTRA-CURRICULAR ACTIVITIES

Sports: Football

Jan 2023 - Present

- Captain, NUS Recreational Football Team
- Captain, Vietnamese NUS Football Team

Vietnamese Community in NUS

May 2023 - Present

- Head of Logistics, Executive Committee member
- Project Director, Night Cycling 2023 and Estrella Prom 2024