Ivan **Lua**

DSTA SCHOLAR · COMPUTER SCIENCE AND BUSINESS ANALYTICS · NANYANG TECHNOLOGICAL UNIVERSITY

☐ 84557799 | ✉ ylua001@e.ntu.edu.sg | in linkedin.com/in/ivan-lua/

About Me

Programming C++/C · Python · NodeJS · ReactJS · Java
Analytics Python · SQL · Hadoop · Power BI · Tableau · Excel/VBA · R · Alteryx · UiPath

Work Experience

TikTok (ByteDance) *Singapore*

DATA ENGINEER INTERN - E-COMMERCE TEAM *Jun. 2022 - Now*

- Designed and built data transformations for reporting, growth analysis, multi-dimensional analysis
- Built batch and real-time data warehouse and managed data modeling design and optimization of ETL jobs (Hadoop)
- Built data metrics, data pipelines and services development for data products to make smarter business decisions

Nanyang Technological University *Singapore*

RESEARCH SOFTWARE ENGINEER - BIOMEDICAL COMPUTING GROUP *Apr. 2022 - Now*

- Built CT Segmentor, a patented AI Web Application (ReactJS, CornerstoneJS) that aids Radiologists in diagnosis for neurological disorders
- Developed a Generative Adversarial Network and YOLOv5 (PyTorch) that analyses brain CT scans for neurological disease
- Designed and developed DICOM viewer to process, display and interact with DICOM images using CornerstoneJS
- Implemented Orthanc DICOM server to fetch DICOM images, studies and structured reports
- Deployed Deep Learning model for brain imaging analysis with Flask on AWS EC2 instance

Shopee (Sea) *Singapore*

DATA ANALYST INTERN - REGIONAL BI & PLANNING TEAM *Apr. 2022 - Jul. 2022*

- Conducted descriptive and diagnostics analytics to monitor region performance and automate report creation
- Developed, streamlined and deployed data pipelines to automate ETL process using Hadoop (Airflow, PySpark, Presto)
- Performed migration of data pipeline architectures from Airflow to Data Studio

Robert Bosch *Singapore*

DATA ANALYST INTERN - AUTOMOTIVE AFTERMARKET TEAM *Sep. 2021 - Feb. 2022*

- Developed data automation program for ETL process to reduce manual work
- Analyzed diverse datasets (Python, R, SQL) to understand sales, drive optimization and improve business strategies
- Created Customer Analysis Dashboard (Power BI, Power Query, DAX) that provides sales, revenue and profit figures by various channel
- Developed data models and algorithms that efficiently transform and enrich sales data

NTU Sports Club *Singapore*

MEDIA AND IT OFFICER - 31ST MANAGEMENT COMMITTEE *Sep. 2021 - Now*

- Headed the Media and IT subcommittee to create and implement web-based projects
- Built a website that facilitates promotion and registration for national events (Bike Rally, National Vertical Marathon)
- Used HTML, CSS and JavaScript to create and style components in work projects
- Refactored existing codebase using Atomic Design methodology to improve design modularity

Foo Kon Tan LLP *Singapore*

SOFTWARE ENGINEER INTERN - TAX TEAM *Jun. 2021 - Aug. 2021*

- Spearheaded multiple Digitalisation Projects to design new software programs that automated work processes
- Implemented a Support Vector Machine that uses Natural Language Processing (Text Classification) to automatically sort unstructured text into pre-defined categories
- Deep dived into structured and unstructured Big Data (General Ledger, Profit and Loss Statement, Balance Sheet etc.)
- Automated application deployment in AWS and on-prem for tax services

Honors & Awards

2022	**DSTA Scholar**, Defence Science and Technology Agency (DSTA) Scholarship	*Singapore*
2022	**1st Place Winner**, MicroStrategy Datathon Challenge	*Singapore*
2022	**Top 10% from 198 teams**, Huawei Cloud Spark Hackathon	*Singapore*

Education

Nanyang Technological University *Singapore*

BACHELOR OF ENGINEERING (COMPUTER SCIENCE) AND BACHELOR OF BUSINESS (BUSINESS ANALYTICS) *Aug. 2020 – Now*