

VALENTINO ONGvalentinoo.2021@scis.smu.edu.sg • +65 9164 2003 • [linkedin.com/in/valentino-ong-396603218/](https://www.linkedin.com/in/valentino-ong-396603218/)**WORK EXPERIENCE****AI Intern, NCS****May 2024 – Aug 2024**

- Led a project from an overseas client to automate tender analysis process using Gen AI from scratch
- Conducted requirement-gathering sessions, presented the project plan and implementation roadmap, and demonstrated findings and performance metrics across various use cases, securing client approval.
- Achieve a 95% reduction in time taken for manual processing of tens of thousands of pages of documents
- As a full-stack developer, designed and developed the solution, leveraging Retrieval-Augmented Generation (RAG) framework and advanced prompt engineering techniques to deliver accurate and efficient outcomes

Data Scientist Intern, Galen Growth**Jun 2023 – Aug 2023**

- Achieved 90% accuracy in classifying news and companies using machine learning models (multi-label classification), eliminating manual work entirely.
- Develop automated data web scraping scripts in Python using BeautifulSoup and Selenium, achieving an 80% reduction in time spent extracting data from online sources.
- Statistical analysis, processed, cleaned, and formatted various data using Numpy, Pandas, MySQL and Excel
- Designed database schema and implement data insertion workflows to insert thousands of data for ventures

EDUCATION**SINGAPORE MANAGEMENT UNIVERSITY****Aug 2021 – Apr 2025****Bachelor of Computer Science (Magna Cum Laude / Highest Distinction)**

(expected)

- **1st Major:** AI & **2nd Major:** Business Analyst
- **GPA:** 3.61 / 4.00
- Dean's list AY23-24, Trailblazer ASEAN Scholarship -2024, 2023, 2022 and 2021
- Teaching Assistant (Intro to AI & Analytics Foundation)

PROJECT**AIP National AI Student Challenge 2024 ([GitHub Repository](#))**

Shorted listed for Final stage in track 1: AIP Association challenge problem for pet adoption rates prediction

- Performed EDA on PetFinder.my data to clean and filter dataset of 14,993 rows of data and 49 features
- Built an end-to-end Machine Learning pipeline that include data preprocessing and utilizes machine learning algorithms such as XGBoost and Random Forest to predict pet adoption rates

Capstone Project: Twinsies (Role: Project Lead)

Develop Gen AI-powered digital twin for education to automatically generate personalized learning recommendations

- Led a cross-functional team using Agile scrum methodology, acted as the liaison between sponsors and team
- Full-stack developer using FastAPI and ReactJS
- deployed using Docker and develop a complete CICD pipeline
- Lead of Gen AI, including prompt engineering and evaluating output to optimize recommendations

Social Analytics of reviews on Lazada ([GitHub Repository](#))

Scrape & analyse Lazada reviews from App store, Google play & other sites to provide actionable insights

- Identified insights on customer satisfaction, pain points, and potential strategies for enhancing app retention
- Performed EDA: data cleaning, timeline analysis, and word clouds to identify key trends in reviews
- Conducted sentiment analysis with VADER to assess customer opinions and validate rating accuracy
- Applied Topic Modelling (LDA) to uncover key themes and areas of improvements in reviews

LinkedIn scrapper and visualizer ([GitHub Repository](#))

Web scrape job postings from LinkedIn of desired role and visualized the top 20 skills to eliminate manual research

- Performed EDA and created visualizations to identify trends in job requirements to guide effective upskilling and enable informed career decisions
- Implemented web scraping and automation using Selenium and BeautifulSoup to streamline data collection

SKILLS & INTERESTS

- **Certification:** Udemy Data Science and Machine Learning bootcamp, Udemy Taming Big Data with Apache Spark and Python, Google Career Data Analytics, AWS Certified Solutions Architect – Associate
- **Programming Languages:** Python, SQL Java & C
- **Data and Analytics:** Data Mining, Machine Learning, PySpark, Web scraping, Tableau & Gen AI
- **Web Development/Frameworks:** FastAPI, Streamlit & Spring Boot
- **DevOps:** Docker, Kubernetes, CI/CD pipeline development
- **Key skills:** Analytical mindset, Leadership, Team-player, Communication, Member education & Hardworking
- **Language fluency:** Effectively bilingual in English and Indonesia, Chinese (A-level) & Malay