

**VALENTINO ONG**

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**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 demonstrated findings and performance metrics across various use cases, securing client approval.
- Achieved 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 implemented ETL pipeline to insert thousands of data into database

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

(expected)

- **1<sup>st</sup> Major:** AI & **2<sup>nd</sup> 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
- Developed a complete CI/CD pipeline and deployed using Docker
- Lead of Gen AI, including prompt engineering and evaluating output to optimize recommendations

**LinkedOut: Resume and Job Matching Recommendation System**

Built a recommendation system using Doc2Vec and FAISS to match resumes with job descriptions and vice versa

- Developed a semantic search model for candidates to find suitable jobs and recruiters to find ideal candidates
- Leveraged FAISS for similarity matching and Doc2Vec embeddings to capture contextual meaning from text
- Developed the backend REST APIs using FastAPI for resume-to-job and job-to-resume 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

**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, AI, Machine Learning, PySpark, Web scraping, Tableau & Gen AI
- **Web Development/Frameworks:** FastAPI, Streamlit & Spring Boot
- **DevOps:** Docker, Kubernetes, CI/CD pipeline development
- **Key skills:** Data Driven, Leadership, Team-player, Communication, Member education & Hardworking
- **Language fluency:** Effectively bilingual in English and Indonesia, Chinese (A-level) & Malay