TRANG DO

Availability: Summer 2025 & Credit Bearing - May to December 2025

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Portfolio: https://trangdoportfolio.netlify.app Github: TrangDo2104

EDUCATION

Nanyang Technological University

Aug 2022 - Dec 2026

Bachelor of Chemical and Biomolecular Engineering with Second Major in Data Analyst

Singapore

- · GPA: 4.53/5.0
- · Awards: ASEAN Undergraduate Scholarship (Full Ride Scholarship)
- · Virtual Training and Development: Financial Engineering and Risk Management Specialization (Coursera)

WORK EXPERIENCES

Signify (Philips Lighting)

May 2024 - Present

Business Analyst Intern

Singapore

- Support R&D decisions with business-driven insights by conducting market research using Python, Selenium, and Octoparse to web scrape and analyze 10,000+ customer reviews.
- Transformed data into actionable insights through **sentiment analysis** and **competitor evaluation** using **OpenAI API** and **Claude API**, with results visualized in **Power BI**, directly impacting product development and presented findings to stakeholders to guide decision-making.
- Improved reporting efficiency by 12% for 200+ B2C deals/month by automating processes via AWS and Excel VBA, integrating forecasting models for 3- to 6-month periods, and developing 10+ PowerBI dashboards linked to Salesforce.

Chimp AI Mar 2024 - Jun 2024

Machine Learning Engineer Intern

Sweden

- · Created personalized roadmaps and career advice with 90% user satisfaction by utilizing GitHub Workflow, LangChain for SQL queries and PDF processing, and OpenAI GPT-4 for chatbot functionality.
- Decreased query response time by **20**% and maintained high performance across **10 different tables** with more than **1,000,000 rows** by managing **MySQL databases** on **GCP** with **Compute Engine** and **Virtual Machine**.
- · Boosted user engagement by **25**%, from **4 to 5 average interactions per user session**, through **A/B testing** and launching the platform in an experimental phase to offer personalized job search experiences.

ACADEMIC PROJECTS

Chemical Reactor Design and Cost Optimization Project

Streamlit

Optimization of Plug Flow Reactor (PFR) Design for Enhanced Conversion Efficiency

Project Link

- · Increased conversion efficiency by 18% and reduced overall design costs by 22% by developing a Python-based framework that utilized Bayesian Optimization along with thermodynamics and reaction kinetics models to optimize Plug Flow Reactor (PFR) design for isopropyl palmitate synthesis, leading to more efficient use of materials and energy.
- Reduced OPEX by 20% by optimizing reactor design, expanding heat exchanger surface area, and eliminating a distillation column, with a CAPEX of \$25.7M (€23.7M) and OPEX of \$79.8M (€73.6M).

Sales Helper System for TikTok Shop

Jun 2024 - Jul 2024

Analytics platform with real-time data visualization and AI functionalities for sales optimization

TikTok TechJam, Singapore

- Boosted data-driven sales decisions by developing a real-time analytics platform with Streamlit, monitoring 10+ key business metrics, including conversion rates and bounce rates, using Supabase for scalable data management.
- · Integrated a GPT OpenAI API and LangChain-powered Chatbot to convert complex sales data and website traffic into actionable insights, enabling 50+ less experienced sellers to make informed decisions.

LEADERSHIP/EXTRACURRICULAR ACTIVITIES

NTU Vietnamese Freshmen Orientation Camp

Jul 2022 - Aug 2023

Chairperson

Singapore

- Improved orientation for **40+ Vietnamese freshmen** by partnering with the three largest high schools in Vietnam and study abroad consulting companies for three months, demonstrating effective stakeholder engagement. Organized a Freshmen Orientation Camp for **130 participants**, receiving positive feedback with a **4.5/5 rating** from attendants through post-event survey.
- Secured \$3,300 (covering 67% of expenses) in sponsorships by leading a team of 40, managing logistics and finances, and creating detailed financial statements.

SKILLS

- · Programming/Databases: Aspen Plus, Python, MATLAB, VBA, Power Automate, SQL, MySQL, PostgreSQL, Firebase, BigQuery
- Frameworks/Visualization: PowerBI, Selenium, Octoparse, TensorFlow, PyTorch, FastAI, Keras, Scikit-Learn, Tableau, Streamlit