

# TRANG DO

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Internship Availability - Full-time: Summer 2025 & May - December 2025 ◊ Part-time: December 2024 - April 2025

## EDUCATION

### Nanyang Technological University

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

Aug 2022 - Dec 2026  
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)

Business Analyst Intern

May 2024 - Present  
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

Machine Learning Engineer Intern

Mar 2024 - Jun 2024  
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

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

Streamlit  
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

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

Jun 2024 - Jul 2024  
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

Chairperson

Jul 2022 - Aug 2023  
Singapore

- Secured **\$3,300** (covering **67%** of expenses) in sponsorships by leading a team of 40, managing logistics and finances, and creating detailed financial statements.
- 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**, featuring a BBQ party and camp games, receiving positive feedback with a **4.5/5 rating** from attendants through a survey.

## SKILLS

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