

## SUMMARY

**Results-oriented Analyst** with a focus on analyzing processes and highlighting trends for improvement. Proven ability to **gather requirements** and **resolve issues** during the development and rollout of **AI solutions**. Adept at staying updated on industry best practices to ensure **high-quality standards** and regulatory compliance.

## EDUCATION

Nanyang Technological University

*Expected in Aug 2026*

*Bachelor's in Mathematical and Computer Science*

CGPA: 4.44

## ACADEMIC PROJECTS

**Multi-Agent Data Analyst Platform | Final Year Project** (Ongoing)

*Aug 2025 - Present*

- Architected a hierarchical agentic workflow (using acyclic directed graph) that **autonomously** decomposes complex user queries into executable sub-tasks, utilizing a **self-correcting** code execution loop to ensure robust data processing.
- Designed a novel "Bias-Contrastive" analysis layer where distinct AI agents assume **specific analytical personas** (e.g. Risk-Averse, Growth Optimist) to debate findings, providing data analysts with **diverse interpretive angles** rather than a single static viewpoint.
- Implemented a "Neutrality Synthesizer" that **mathematically** aggregates divergent agent opinions to filter out subjective noise, producing **objective, statistically grounded** insights that aid in **unbiased** decision-making.

**Skills:** Multi-Agent Systems (MAS), Hierarchical Task Planning, Prompt Engineering (Persona Injection), Python, LangGraph/LangChain, Data Visualization, Quantitative Analysis.

## RECENT PROJECTS (More in [GitHub](#))

**StockAI | Automated Financial Data Pipeline & Analysis**

*May 2025 – Aug 2025*

- Developed an end-to-end data ingestion pipeline that aggregates and cleans real-time financial metrics (P/E, EPS, Revenue) from multiple sources to support fundamental analysis and stock screening.
- Deployed an **NLP-driven** system to process unstructured earnings reports, **automatically** extracting qualitative sentiment and transforming text into structured datasets for trend analysis.
- Designed dynamic risk assessment metrics to visualize portfolio distribution, identifying concentration risks and providing actionable data-driven alerts for investment decision-making.

**Portfolio AI Assistant | Semantic Information Retrieval System**

*Apr 2025 – July 2025*

- Engineered a Retrieval-Augmented Generation (**RAG**) system to query a knowledge base of **3,000+** data points, reducing information retrieval latency to **<200ms** for efficient business queries.
- Implemented a deterministic **query parsing module** (using Function Calling) that maps ambiguous natural language inputs to precise database queries, achieving **90%** intent recognition **accuracy**.
- Optimized data retrieval algorithms** to handle multi-turn context, ensuring consistent answer quality and minimizing computational overhead in data-intensive workflows.

## WORK EXPERIENCES & INTERNSHIPS

**Rohde & Schwarz | Software Engineer**

*Jan 2025 – May 2025*

**Automation Manager**

- Engineered an **automated data collection pipeline** for Android device testing, ingesting results from over 5,000 test cases and reducing manual analysis time by 60%.

- Scripted Python automation workflows to parse raw TCP logs, reducing the time required for manual data review and error analysis by **60%**.

## AV Media | Project Intern

May 2024 – Dec 2024

### Hologram Chatbot

- Designed a data management interface using React to visualize retrieval metrics, enabling stakeholders to monitor chatbot performance and **knowledge base accuracy**.
- Architected a **data retrieval system (RAG)** on Microsoft Azure to structure and manage organizational knowledge, reducing information query time to under 0.2s.

## LEADERSHIP EXPERIENCES

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### ISAR 2025

June 2025

#### Event Leadership & Project Management

- Directed all communications and collaboration with external event organizers, venue hosts and internal AV teams to ensure seamless program flow and on-site execution.
- Managed a 10-member team in managing all audiovisual and logistical aspects for **large-scale international event** with participants from multiple countries, including USA, Australia, Netherlands, and Denmark.
- Led the entire AV production lifecycle from pre-event planning and slide creation to live program execution and troubleshooting to ensure **100% on-schedule program flow** and resolve all technical issues in less than **5 minutes**.

### NTU Rotaract Club

Aug 2023 – July 2024

#### Team Lead | Division of Community Service

- Led a team of 20 volunteers to plan, organize, and executed weekly visits for the elderly community members across Singapore.
- Managed all logistics and collaborated with external government organizations to plan and host **2 large-scale events** for seniors over the academic year.

### NTU NBS Corporate Support & Facilities

Jan 2023 – Recent

#### Regular Logistic Team Lead

- Managed team size of 15, streamlining logistics and facilities management through effective communication with key stakeholders and university faculty.
- Directed communications and collaborations between university departments and offices.

## MISCELLANEOUS

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- **Skills:** Python (Pandas, Scikit-Learn), SQL (Postgres), ETL, Power BI, Excel, Time Series Analysis, RAG Systems, LLM Prompt Engineering, Machine Learning, Data Visualization, Cloud & Engineering (Microsoft Azure, AWS, Docker, Git, CI/CD (DevOps), REST APIs.).
- **General Skills:** Continuous learning, Team leading/organizing, Time management, Team communication/collaboration, Creative problem-solving, Agility, Attention to details, independent working, Proactive, Deep thinking, Ethical Thinking.
- **Interests:** iOS Shortcuts, Musical instruments, Travelling.