IAIN RODERICK TAY

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Final-year student seeking roles in AI/ML and Data Science. Available for an internship from March to September 2026 and actively pursuing full-time graduate opportunities starting September 2026.

EDUCATION

Nanyang Technological University, Singapore - *B.Comp. in Data Science and Artificial Intelligence*　　　　**Aug 2022 - Present**

- Final Year Student, Expected Graduation: June 2026

PROFESSIONAL EXPERIENCE

Incoming AI Engineer Intern, Continental　　　　**Dec 2025 - Mar 2026**

- Awaiting placement in Automotive Operations & Technology within Continental's R&D Centre.

AI Engineer Intern, Trustplus AI　　　　**Jun 2025 - Aug 2025**

- Drove AI software development at a fintech startup delivering credit risk management solutions.
- Engineered a high-accuracy table detection system for multilingual documents using YOLOv8 (99.3%), approaching research-grade benchmarks.
- Fine-tuned and deployed ensemble BERT models (98.8% accuracy) for automated financial statement categorization, integrating them via scalable AWS endpoints.

Data Science Intern, Seagate Technology　　　　**Jan 2025 - May 2025**

- Developed a system health dashboard by analyzing machine log files, which increased operational visibility and reduced downtime.
- Automated data analysis workflows to identify performance patterns and optimization opportunities from complex log files.
- Deployed Grafana and Prometheus for real-time metrics tracking and proactive maintenance.

Software Engineer Intern, Defence Science Technology Agency (DSTA)　　　　**May 2024 - Aug 2024**

- Engineered a real-time drone mosaic map generation system with LuciadLightspeed, enhancing battlefield visualization capabilities.
- Developed and optimized telemetry data extraction and processing pipelines using the Java Spring framework, improving system efficiency.
- Improved operator situational awareness by implementing real-time data processing and seamless system integration.

PROJECTS & ACHIEVEMENTS

- ***Final Year Project*** – Developing AI models for soccer match outcome prediction (in progress).
- ***EY (Ernst & Young) AI & Data Challenge Ambassador (2025)*** – Selected to promote EY's global competition at NTU, supporting student outreach and engagement.
- ***DSTA BrainHack 2025 – Semi-finalist,*** *Built a multi-domain AI system integrating Whisper (ASR), YOLO (CV), docTR (OCR), and a Deep Q-Network (RL).*
- ***Are U ReaL? – 3rd place,*** NTU Techfest Hackathon 2025 – Created a web application that detects fake news using a multi-agent RAG pipeline.
- ***Environmentals – 3rd place,*** NTU IEEE iNTUition Hackathon 2024. Built a gamified recycling app featuring AI-generated collectible pets.
- ***FrAI – Top 10,*** NTU Techfest 2024. Designed an AI-powered recipe recommender for affordable, personalized meal planning.

SKILLS

- **Programming:** Python, Java, SQL, JavaScript, React, Next.js, Git, Docker
- **ML/AI:** PyTorch, TensorFlow, YOLO, BERT, OpenCV, NLP, Model Deployment (AWS)
- **Data:** Pandas, NumPy, Matplotlib, Seaborn, Grafana, Prometheus