# Nathan Pua Jun Shen

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## EDUCATION

**Bachelor of Computing in Data Science and Artificial Intelligence**  ·  **Jul 2023 - Jul 2027**
*Nanyang Technological University, Singapore*
GPA: 4.6/5.00 | Expected First Class Honours (Distinction)

**'A' Levels**  ·  **Feb 2019 - Nov 2020**
*Nanyang Junior College, Singapore*
86.25/90 RP | Physics, Chemistry, Mathematics, Economics (AAA/A)

## EXPERIENCE

**Business Analyst Intern**  ·  **May 2025 - Aug 2025**
*Accenture, Singapore*
- Led requirements gathering and stakeholder management for $3.6M government digital transformation project, coordinating with 8+ cross-functional teams to deliver solutions 15% ahead of schedule
- Engineered and optimized SQL queries for automated data patching across 3 integrated systems, improving data accuracy by 94% and reducing manual testing cycles from 5 days to 6 hours
- Streamlined quality assurance workflows using Miro, Jira, and advanced SQL analytics, resulting in 35% faster defect resolution and 99.2% test pass rate across SIT and UAT phases

**Data Analyst Intern**  ·  **May 2024 - Nov 2024**
*Maritime and Port Authority of Singapore, Singapore*
- Engineered automated ETL pipeline integrating 14 years of revenue data, decreasing processing time by 35% and raising data accuracy by 20%
- Developed Python and SQL scripts for automated revenue data validation, saving over 1,000 man-hours yearly by eliminating manual checks
- Created interactive PowerBI dashboard for revenue trend analysis, empowering data-driven decisions and boosting reporting efficiency by 40%

## PROJECTS

**Cloud Automation Project - Matcha Stock Monitor | AWS, Go, Terraform**
- Architected AWS serverless solution (Lambda, EC2, EventBridge) to automate web scraping and inventory monitoring, sustaining 100% uptime
- Implemented a containerized scraping system with infrastructure managed by Terraform with Infrastucture as Code (IaC) best practices to engineer a near zero-cost solution

**Metamorphosis: Change Management Dashboard | Next.js, TypeScript, Supabase**
- Engineered dashboard featuring AI-powered RAG chatbot and automated risk assessment, streamlining organizational change processes
- Built advanced AI features (DeepSeek, LangChain, FAISS) for intelligent document analysis and context-aware recommendations

**Exposé: AI-Powered Misinformation Detection System | React, OpenAI, Chrome Extension**
- Developed full-stack web app and Chrome extension leveraging LLMs to detect bias and misinformation in news articles and images
- Integrated OpenAI and Supabase REST API; built user interface with React and Tailwind CSS for robust misinformation detection

## TECHNICAL SKILLS

**Programming:** Python, SQL, C, C++, Java, R, JavaScript, TypeScript, HTML, CSS, Go
**Data & AI:** Data Science, Machine Learning, Data Analysis, Data Visualization, Generative AI, Langchain, Cloud Technologies
**Tools:** AWS, GCP, Docker, Terraform, Pytorch, GitHub Actions, PowerBI, Microsoft Office, Jira, Figma, Miro
**Methodologies:** Agile, Scrum, Test-Driven Development

## CERTIFICATIONS & ACHIEVEMENTS

**Certifications:** AWS Cloud Practitioner Essentials, Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
**Hackathons:** SAP SCALE 2025, NTU Deep Learning Week 2025, NTU Techfest 2025, MaritimeOne Case Summit 2024