

YUYANG (ROY) WANG

AI APPLICATION ENGINEER — BRIDGING ML, FULL-STACK, AND HUMAN-CENTERED DESIGN

✉ jg971402@gmail.com github.com/RoyWG925 [Portfolio: Brutalist-Astro](#)

EDUCATION

National Taiwan Normal University (NTNU) SEP 2021 – JUN 2026

Bachelor of Science in Learning Sciences

GPA: **3.47 / 4.3** (Overall) | **4.12 / 4.3** (Senior Fall 2024 — Ranked **4th in class**) | Last 2 Years: **~3.78 / 4.3**

Relevant: Deep Learning, Generative AI Application Engineering, Discrete Mathematics

PROJECTS & RESEARCH

Event-driven Sentiment & Market Performance JAN 2025 – DEC 2025

NLP RESEARCH · NTNU

- Designed a SQLite data pipeline to crawl, clean, and store 20,000+ posts from PTT Stock Board
- Fine-tuned a BERT-based sentiment classifier on domain-specific financial text, improving F1 from 0.23 → 0.68 through class-imbalance handling and custom tokenization
- Conducted time series analysis correlating sentiment volatility with TAIEX fluctuations for event-driven trading research

Chewsy — Real-time Multiplayer Restaurant Decision App 2025

REACT · FIREBASE · FRAMER MOTION

- Built a Tinder-style swiping app for groups to find restaurant matches, with live Firebase state sync across users
- Implemented QR-based room joining, anonymous auth, and spin-wheel tiebreaker with smooth animations

NUCLEUS.IO — Interactive 3D Portfolio 2025

THREE.JS · WEBGL · CUSTOM SHADERS

- Engineered a gamified portfolio: fly a spaceship through space, collide with neon text, collect project orbs
- Built custom post-processing (Bloom), physics-based text collision, and responsive UI overlays

T-Minus — Event Countdown Dashboard 2025

VANILLA JS · CANVAS API · CSS

- Developed a zero-dependency frontend event tracker with responsive grid layouts and custom Canvas animations
- Implemented dynamic time calculations and ambient UI interactions following minimalist design principles

TECHNICAL SKILLS

AI / LLM LLM API Integration, HuggingFace, PyTorch, RAG Pipelines, Prompt Engineering, BERT Fine-tuning

PROGRAMMING Python, JavaScript / TypeScript, GDScript

FRONTEND React, Astro, Three.js / WebGL, Tailwind CSS, Framer Motion

BACKEND / DB Node.js, Firebase, SQLite, Pandas

TOOLCHAIN Git / GitHub, Docker, Vercel, Cursor / GitHub Copilot (AI-augmented dev)

LANGUAGES

Chinese — Native English — Intermediate (TOEIC 720)