

David Chan Weizhi

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EDUCATION

National University of Singapore, School of Computing

Aug 2023 - Present

Bachelor of Science in Business Analytics (Honors)

- GPA: 4.75 (Highest Distinction)
- Teaching Assistant for BT2102 Data Management & Visualisation, CP2106 Independent Software Development Project

CORE COMPETENCIES

- Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, R, SQL, VBA
- Frameworks: React, Next.js, Node.js, Tailwind CSS, Flask, FastAPI, LlamaIndex
- Tools: Git, Docker, Supabase, Firebase, Pinecone, Heroku, Vercel
- Libraries: Pandas, Numpy, Scikit-learn, Pydantic, SQLAlchemy, Alembic, Transformers

INTERNSHIP & WORK EXPERIENCE

Incoming Software Engineer Intern, Synapse

June 2025 - Dec 2025

- Fullstack development of advanced healthcare system integrated with computer vision and generative AI, hosted on AWS cloud services
- Implement multi-modal capabilities to enhance user experiences within the healthcare solution

Risk Analyst Intern, China CITIC Bank International

May 2024 - Aug 2024

- Lead design and development of a comprehensive risk analysis tools with VBA, strengthening risk management strategies and speeding up processes by 150% for risk department
- Overhauled department's data management system with Power Query and Power Pivot, transitioning to a more robust and scalable system, optimising usability by 100% for risk department

PROJECTS

AI Meal Plan Generator

Feb 2025 - Mar 2025

- Developed mobile app leveraging Retrieval Augmented Generation (RAG) to retrieve unstructured recipe data and structured user data to generate tailored meal plans with OpenAI
- Leveraged document understanding transformer to parse receipt images

Automated Daily Crossword Web Game

Jan 2025 - Feb 2025

- Developed responsive web app featuring custom crossword game with automatic daily refresh
- Won Best Polyglot Hack for NUS Hack & Roll 2025 out of 427 participants
- Maintaining ~500 daily unique visitors

Ethereum Transaction Fraud Detector

Dec 2024 - Jan 2025

- Developed Rest API and trained ML model for Ethereum transaction fraud detection with ~96% accuracy, helping financial institutions leverage blockchain and adhere to compliance regulations
- Achieved Finalist (Top 5 of 88 Teams) for NUS Fintech Hackathon 2025, Northern Trust track

CO-CURRICULAR ACTIVITIES

NUS Fintech Society

- Lead in design and development of new organisation website with WordPress

Tembusu College, University Town College Programme

- Represented college as Team B Captain in the 2024 and 2025 Inter-College Games, Ultimate Frisbee
- Contributing in research project in collaboration with Research Fellow, studying media framing of universities in Singapore, leveraging hierarchical cluster analysis and AI content coding

CERTIFICATIONS

- Excel Skills for Business: Essentials (Macquarie University)
- Python Data Structures (University of Michigan)

INTERESTS

- Sports: Ultimate Frisbee, Taekwondo (Blue Belt)
- Volunteer work: Aljunied GRC (MPS, House visits), East Coast Beach Plan