Tee Kai Yang

Singapore

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EDUCATION

Nanyang Technological University, Singapore   Aug 2024 – May 2028 (Expected)
(Bachelor of Applied Computing in Finance
- Current CGPA: 4.53/5 (First Class Honors)
- Awards: Dean's List AY2024/2025, Hee Chong Meo Scholarship

WORK EXPERIENCES

Full-Stack AI Engineer Intern, Pencil Labs   Nov 2025 – Present
- Co-developed *QueryLabs*, a B2B SaaS hybrid RAG platform with Qdrant, enabling explainable enterprise document querying across large multi-file knowledge bases.
- Owned and delivered 3 enteprise-facing features relating to AI chat interface, interactive document viewer, file and knowledge base management system in two weeks, built with Next.js, TypeScript, TailwindCSS, FastAPI, and Supabase.
- Proposed and integrated Redux into the frontend architecture, reducing technical debt to facilitate long term code maintainability.
- Involved in citation provenance pipeline, designing the citation schema and rendering bounding box and source metadata for retrieved document chunks to improve explainability, trustworthiness, and auditability.
- Participated in client discovery and requirement-gathering calls, translating business and compliance needs into technical specifications and product features.

Web Developer, NTU Investment Interactive Club   Sep 2024 – Aug 2025
- Revamped the club's website with UX/UI improvements, driving a 176% increase in users and a 15.3% boost in engagement rate.

PROJECTS

Internship Hub | Java, SOLID Principles   Nov 2025
- Developed *Internship Hub*, a SOLID-compliant object-oriented internship management system for NTU with role-based access, approval workflows, and persistent storage.

Stock Wizard | React.js, Redux, Node.js, Chart.js, Yahoo Finance API, Vercel   Aug 2025
- Developed *Stock Wizard*, a full-stack stock analytics tool, enabling beginner investors to screen stocks in real-time, perform quantitative analysis with interactive visualizations and educational tooltips.

Career Pal | OpenAI LLM, Prompt Engineering, React.js, Redux, Node.js, FireBase, Vercel   Jul 2025
- Built *Career Pal*, an AI-powered career recommendation platform onboarding user through questionnaires and craft personalized career roadmap with checklist and recommended resources.
- Architected an AI data pipeline involving gpt-oss:120b model via OpenRouter API, structured prompt and JSON retrieval.
- Integrated Firebase Auth and Firestore for real-time synchronization and secure user authentication.

Checklah – Multimodal Fake News Detector | HuggingFace, BERT, Tesseract   Feb 2025
- Engineered an NLP and OCR pipeline and build a front-end interface for multimodal content validation with 82% pass rate.

HACKATHONS & COMPETITIONS

- **Batch 09 International Hackathon 2025 – 1st Place**
- **NTU FinTech Essay Challenge 2025 – 2nd Place**
- **NTU IEEE x Jane Street Coding Challenge 2025 – 3rd Place**
- **Baringa Inter-Varsity Trading Competition 2025 – Finalist**
- **TechFest Hackathon 2025**
- **Tech4Good Ideathon 2024**

LEADERSHIP EXPERIENCE

Founding President, Nanyang FinTech Catalyst   Oct 2024 – Present
- Spearheaded growth strategy that expanded headcount from 5 to 140+ within a year.
- Leading a team of 10 executive committees, launching *Quant Finance Academy* and *FinTech Exploration Hub*.

SKILLS & TOOLS

Programming Languages: JavaScript (TypeScript, Node.js), Python (Pandas, PyTorch, Scikit-Learn), Java, R, Solidity
Frameworks & Tools: Next.js, React.js, Redux, FastAPI, Firebase, Google Cloud, Qdrant, LangChain, Ollama, Docker, Supabase
Concepts: Object-Oriented Programming, SOLID Principle, Data Structures & Algorithms, REST APIs, Containerization, Cloud Deployment, Neural Network, Natural Language Processing, Prompt Engineering, Retrieval Augmented Generation, Agentic AI