

Feng “Wayne” Lin

Full-Stack Developer | React • TypeScript • Java • Applied AI

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Summary

Full-stack developer building in React, TypeScript, and Node.js — from an Express and MySQL booking platform with JWT authentication to Spring Boot services behind a production e-commerce site. Two years shipping LLM applications, including an agent in daily use by a 20-lawyer practice.

Skills

Frontend: React, Next.js, TypeScript, Tailwind CSS, GSAP, D3

Backend: Node.js, Express, Java, Spring Boot, REST APIs, JWT Auth

Data & ML: MySQL, Sequelize, Hibernate, Python, LangChain, RAG, PyTorch

Platform: AWS, GCP, Linux, Nginx, PM2, Git

Experience & Research

Jincheng Tongda & Neal | Legal AI Agent Developer

Sep 2023 – Dec 2025

Jinan, China

- Built a **LangChain-based legal AI agent** used by **20+ lawyers** for case research, statute analysis, and matter preparation, integrating LLMs, retrieval pipelines, and tool-based workflows.
- Implemented an end-to-end **RAG pipeline** over **8,000+ case documents, statutes, and contracts** — ingestion, text processing, embedding generation, vector search, context retrieval, and response generation.
- Designed multi-step agent workflows for query classification, document retrieval, key fact extraction, and case comparison, cutting typical precedent research from **around two hours to under 30 minutes**.

Wipro | Java Backend Developer

Sep 2022 – Jun 2023

Sydney, Australia

- Built and maintained **Spring Boot** services that connected a customer-facing web front end to backend systems, implementing and testing **20+ REST endpoints** against an agreed API contract.
- Managed builds and data persistence with **Maven and Hibernate**, keeping deployments repeatable and schema changes consistent across environments.

University of Queensland | Weakly Supervised Learning (Medical)

Feb 2022 – Jun 2022

Brisbane, Australia

- Evaluated model performance on large unlabeled and imbalanced medical datasets; led data cleaning and preprocessing in Python, TensorFlow, and PyTorch.
- Built CNN and MLP models to investigate weakly supervised learning for medical imaging and NLP-based cancer diagnosis tasks.
- Publication: *Pre-training in Medical Data: A Survey, Machine Intelligence Research*.

University of Queensland | Cardiovascular Signal Classification & Display

Aug 2021 – Nov 2021

Brisbane, Australia

- Ran a full classification pipeline on **Google Cloud Platform**, from ingest through to result visualisation.
- Built a CNN training pipeline with Hadoop, PyTorch, and Matplotlib, supporting cloud-based model experimentation.

Inspur | Frontend Developer Intern

Oct 2019 – Feb 2020

Jinan, China

- Contributed to the delivery of a provincial government web portal using Java, HTML, and CSS.

Education

University of Queensland – Master of Information Technology

Jul 2020 – Jul 2022

Brisbane, Australia

- Thesis: *Weakly Supervised Learning for Cyber Attacks from Only Unlabeled Data* — applied unlabeled-unlabeled (UU) learning to intrusion detection across **1.5M+ network traffic records** from four variants of three public benchmarks (KDDCup99, UNSW-NB15, CIC-IDS2017), with 41–78 features each.
- Built the full preprocessing pipeline in Python (cleaning, categorical encoding, standardisation, train/test splitting) and evaluated classifier performance under severe class imbalance — down to **1.3% positive samples**.

University of Tasmania – Bachelor of Electrical Power Engineering (Honours)

Sep 2014 – Dec 2018

Hobart, Australia

Projects

Bumblebee Club | Node.js, Express, MySQL, JWT, WeChat Mini Program 2025

- Built a course and field booking platform for a children's football academy: an **Express REST API** with JWT authentication and bcrypt password hashing, a **MySQL** schema with versioned migrations, and a 13-screen WeChat Mini Program front end covering courses, coaches, orders, reservations, and an admin console.
- Implemented time-slot conflict detection with **row-level locking** so concurrent requests cannot double-book a field, alongside order pricing and reservation status tracking.

Personal Site & Portfolio | Next.js 16, React 19, TypeScript, Tailwind CSS 2026

- Statically rendered single-page site on the Next.js App Router, scoring **100 across Performance, Accessibility, Best Practices, and SEO** on Lighthouse (desktop), with all content server-rendered for crawler and ATS visibility.
- Built a typed content layer, a token-driven design system in Tailwind v4, and scroll-linked motion with Lenis and Motion, fully degrading under **prefers-reduced-motion**.

Quantis | Android Real-Time Voice Assistant — Kotlin, Jetpack Compose, Hilt, Room 2026

- Built a full-duplex speech pipeline — on-device VAD segmentation, cloud speech-to-text, LLM response, sentence-level TTS playback — supporting **barge-in** so the user can interrupt mid-answer; runs in an Android foreground service to survive backgrounding.
- Routed each UI language to a different speech stack (Volcano Engine for Mandarin, OpenAI for English) behind a single interface, with per-language voice, speed, and theme preferences in DataStore and resumable conversation history in Room.

Self-Hosted Remote AI Coding Pipeline | AWS Lightsail, Nginx, Node 20, PM2, MCP 2026

- Deployed and operated an end-to-end remote development workflow on Ubuntu — HTTPS through an Nginx reverse proxy with Let's Encrypt, a Node gateway under PM2, and a Discord bot front end driving an agentic coding CLI against isolated per-project workspaces.
- Integrated GitHub and Vercel MCP servers for push-to-deploy, tunnelling OAuth callbacks over SSH to complete authorisation on a headless host. (*Deployment and integration; the underlying bridge is open source.*)

Programmatic Video Pipeline | Remotion 4, React, TypeScript, D3, GSAP 2026

- Rendered a data-driven bar chart race of Asian population, **1980–2025** (World Bank WDI), using D3 for scales and geometry only while Remotion interpolates per frame — deterministic output with no runtime transitions.
- Filmed a five-section SaaS landing page as a 20-second promo by seeking a paused GSAP timeline from Remotion's frame clock.

Additional

Languages: English (fluent), Mandarin (native) • **Licence:** Australian Driver's Licence